SAMSUNG

Instruction Manual

DVD-SR150M

SAMSUNG
DVD-SR150M
RAM-RW-R
MULTI FORMAT RECORDING
OPEN/CLOSE
OPEN
SAMSUNG

DVD VIDEO RAM/RW
DVD VIDEO
COMPACT disc DIGITAL AUDIO

www.samsung.com

AK68-01452A

Getting Started

Warning

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡ **CAUTION** ⚠
RISK OF ELECTRIC SHOCK
DO NOT OPEN

⚡ This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

⚠ This symbol indicates important instructions accompanying the product.

Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING : To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.
CAUTION : DVD Recorder USES AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE DVD Recorder CORRECTLY AS INSTRUCTED.

CAUTION
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

This product satisfies CE regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

IMPORTANT NOTE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug. If it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains jack, as there is a risk of shock hazard from the bared flexible cord.

To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

The product unit accompanying this user manual is licenced under certain intellectual property rights of certain third parties. This licence is limited to private non-commercial use by end-user consumers for licenced contents.
No rights are granted for commercial use.
The licence does not cover any product unit other than this product unit and the licence does not extend to any unlicenced product unit or process conforming to ISO/IEC 11172-3 or ISO/IEC 13818-3 used or sold in combination with this product unit. The licence only covers the use of this product unit to encode and/or decode audio files conforming to the ISO/IEC 11172-3 or ISO/IEC 13818-3. No rights are granted under this licence for product features or functions that do not conform to the ISO/IEC 11172-3 or ISO/IEC 13818-3.

Precaution

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings, Install in accordance with the manufacturer’s instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Handling Cautions

- Before connecting other components to this DVD Recorder, be sure to turn them all off.
- Do not move the DVD Recorder while a disc is being played, or the disc may be scratched or broken, the DVD Recorder internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the DVD Recorder.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this DVD Recorder. If this occurs, turn the DVD Recorder off and on again with the **STANDBY/ON** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The DVD Recorder will operate normally.
- Be sure to remove the disc and turn off the DVD Recorder after use.
- Disconnect the AC power cord from the AC outlet when you don’t intend to use the DVD Recorder for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

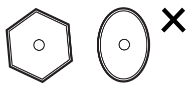
Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

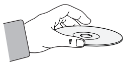
Disc Handling

- Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this DVD Recorder may be damaged.



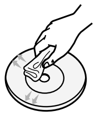
Holding discs

- Avoid touching the surface of a disc where recording is performed.



DVD-RAM, DVD±RW and DVD±R

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1 where available). Do not use cleaners or cloths for CDs to clean DVD±RW/±R discs.



DVD-Video, Audio-CD

- Wipe off dirt or contamination on the disc with a soft cloth.

Cautions on handling discs

- Do not write on the printed side with a ball-point pen or pencil.
- Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
- Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.
- Do not load warped or cracked discs.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.
- If you move your DVD Recorder suddenly from a cold place to a warm place, condensation may generate on the operating parts and lens and cause abnormal disc playback. If this occurs, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again.

Disc Specifications

This unit allows you to record and playback high quality digital video on DVD-RAM/-RW/-R discs.
You can also edit digital images on DVD-RAM/-RW discs. (DVD+RW/+R discs can be played, but cannot be recorded.)

Disc Type

◆ DVD-Video

- A digital versatile disc (DVD) can contain up to 135-minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby digital surrounding, allowing you to enjoy vivid and clear theatre quality images in the comfort of your own home.
- When switching from the first layer to the second layer of a dual-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
- Once a DVD-RW/-R recorded in Video Mode is finalised, it becomes DVD-Video.

◆ Audio CD

- An audio disc on which 44.1 kHz PCM Audio is recorded.
- Plays CD-DA format audio CD-R and CD-RW discs.
- The unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

◆ CD-R/-RW

- Use a 700MB (80 minutes) CD-R/-RW disc. If possible, do not use a 800MB (90 minutes) or above disc, as the disc may not play back.
- If the CD-R/-RW disc was not recorded as a closed session, you may experience a delay in the early playback time, all recorded files may not play.
- Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them. For contents recorded on CD-R/-RW media from CDs for your personal use, playability may vary depending on contents and discs.

◆ DVD-R Disc Playback and Recording

- Once a DVD-R recorded in Video Mode is finalised, it becomes DVD-Video.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programmes and erasing programmes before finalising.
- When programming is erased from a DVD-R, that space does not become available. Once an area on a DVD-R is recorded on, that area is no longer available for recording, whether the recording is erased or not.
- It takes about 30 seconds for the unit to complete recording management information after recording finishes.
- This product optimizes the DVD-R for each recording. Optimizing is carried out when you start recording after inserting the disc or turning on the unit. Recording onto the disc may become impossible if optimizing is carried out too many times.
- Playback may be impossible in some cases due to the condition of recording.
- This unit can play back DVD-R discs recorded and finalised with a Samsung DVD video recorder. It may not be able to play some DVD-R discs depending on the disc and the condition of the recording.

◆ DVD-RW Disc Playback and Recording

- Recording and playback can be performed on DVD-RW discs in both the Video and VR Modes.
- Once a DVD-RW recorded in both the Video and VR Modes is finalised, you cannot perform additional recording.
- Once a DVD-RW recorded in Video Mode is finalised, it becomes DVD-Video.
- In both modes, playback can be performed before and after finalisation, but additional recording, deleting and editing can not be performed after finalisation.
- If you want to record the disc in VR Mode and then record in V Mode, be sure to execute Format. Be careful when executing Format because all the recorded data may be lost.
- A DVD-RW blank disc is initialised to VR Mode when first initialised.

◆ DVD-RAM Disc Playback and Recording

- Ensure that the recording mode is set to VR mode. Otherwise, this product will not be able to play the recording.
- You cannot play a DVD-RAM in most DVD components due to compatibility issues.
- Only DVD-RAM standard Version 2.0. discs can be played in this unit.
- DVD-RAM recorded on this unit may not work with other DVD components. To determine compatibility with these DVD-RAM discs, refer to the user’s manual for the player.
- For cartridge type DVD-RAM discs, remove the cartridge and use the disc only.

COPY PROTECTION

- Many DVD discs are encoded with copy protection.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorised by Macrovision Corporation, is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Protection
This DVD Recorder can allow you to protect the contents of your discs, as described below.

- Programme-protected : See page 75 “Locking (Protecting) a Title”
- Disc-protected : See page 85 “Disc Protection”

❋ DVD-RAM/±RW/±R discs that are incompatible with the DVD-VIDEO format cannot be played with this product.

❋ For more information on DVD recording compatibility, consult your DVD-RAM/-RW/-R manufacturer.

❋ Use of poor quality DVD-RAM/-RW/-R discs may cause following unexpected problems including, without limitation, recording failure, loss of recorded or edited materials or damage to the DVD Recorder.

Disc Format

◆ Using MP3 disc

- CD-R/-RW, DVD-RAM/±RW/±R with MP3 files recorded with UDF, ISO9660 or JOLIET format can be played.
- Only MP3 files with the ".mp3" or ".MP3" extension can be played.
- For MP3 files recorded with a VBR(Variable Bit Rates), from 32 Kbps to 320 Kbps, the sound may cut in out.
- Playable bit-rate range is from 56 Kbps to 320 Kbps.
- Each folder can have up to 500 items including files and sub folders.

◆ Using JPEG disc

- CD-R/-RW, DVD-RAM/±RW/±R recorded with UDF, ISO9660 or JOLIET format can be played.
- Only JPEG files with the ".jpg" or ".JPG" extension can be displayed.
- Each folder can have up to 500 items including files and sub folders.
- MOTION JPEG and progressive JPEG are not supported.

◆ Using DivX disc

- Disc : CD-R/-RW, DVD-RAM/±RW/±R
- Video File with following extensions can be played. : .avi, .divx, .AVI, .DIVX
- DivX Video (Codec) Format : DivX 3.11 DivX 4.x DivX 5.x (without QPEL and GMC)
- DivX Audio (Codec) Format : MP3, MPEG1 Audio Layer 2, LPCM, AC3
- Supported subtitle file formats: .smi, .srt, .sub, .psb, .txt, .ass
- Each folder can have up to 500 items including files and sub folders.
- You cannot play back the disc that is larger than a 720 x 576 pixel resolution.

Do not use the following discs!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM discs should not be used in this product.

  [Note]

  Disc types that can be played : CD/CD-R/-RW/MP3/JPEG/DVD-Video/DVD-RAM/±RW/±R.
  For a DVD-RW/-R disc, which has been recorded in Video Mode on another component, it can play only when finalised.
- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No disc." or "Please check the regional code of the disc." will be displayed.
- If your DVD-RAM/±RW/±R discs is an illegal copy or is not in DVD video format, it may also not be playable.

◆ Disc compatibility

- High Speed Recording discs can be used in this unit.
- Not all brands of discs will be compatible with this unit.

Contents

Getting Started

- Warning....2
- Precaution....3
  - Important Safety Instructions....3
  - Handling Cautions....3
  - Maintenance of Cabinet....3
  - Disc Handling....4
  - Disc Storage....4
  - Disc Specifications....4
- General Features....9
- Before reading the user's manual....10
- How to use the DVD Recorder....10
- Unpacking....12
- Description....14
  - Front Panel....14
  - Rear Panel....15
  - Front Panel Display....15
  - Tour of the Remote Control....16

Connecting & Setting Up

- Connecting the DVD Recorder....17
- Additional connections....17
- Other type of connecting the Video output cable....18
  - Case 1 : Connecting to a Video (Composite) output jack....18
  - Case 2 : Connecting to an S-Video output jack....19
  - Case 3 : Component Video output jacks....19
- Other type of connecting the Audio output cable....20
  - Case 1 : Connecting to your TV....20
  - Case 2 : Connecting to a stereo amplifier with AV output jacks....20
  - Case 3 : Connecting to an AV amplifier with a digital output jack....21
- Connecting to AV 3 IN, DV input jack....21
  - Case 1 : Connecting a VCR, Set-Top Box(STB), DVD player or Camcorder to the AV 3 IN jacks....21
  - Case 2 : Connecting a Camcorder to the DV IN jack....22

System Setup

- On-Screen Menu Navigation....23
- Plug & Auto Setup....23
- Clock Set....24
  - Time Zone....25
  - Manual clock set....25
  - Daylight Saving Time....25
- Channel Set....26
  - Auto Setup....26
  - Digital Manual Setup....27
  - Analogue Manual Setup....27
  - Digital Channel List....28
  - Digital Favorite Channel....28
- Setting up the System Options....28
  - Auto Power Off Setting....29
  - Automatic Chapter Creator....29
  - EP Mode Time Setting....30
  - EZ Record....30
  - DVB-T Auto Subtitle....30
  - DivX(R) Registration....30
- Setting up the Language Options....31
- Setting up the Audio Options....31
- Setting up the Video Options....33
  - Progressive scan....34
- Setting up the Parental Lock....35
  - If you forgot your password....35
  - Setting the Programme Grade....36
  - Setting the DVD Level....36
  - Changing the Password....36

DTV Functions

- Basic Functions....37
  - Display Screen....37
  - Select Audiotrack....37
  - Setting the Favorite Channel....38
  - Changing the Subtitle Language....38
  - Using the digital text service....38
- Guide....39
  - Guide Timer Recording....39

Playback

- Region code (DVD-Video only) 40
- Logos of Discs that can be played 40
- Disc types that can be played....40
- Playing a Disc....41
- Using the Disc Menu & Title Menu 42
- Using the playback related buttons....43
- Using the INFO button....45
- Selecting the Subtitle Language....45
- Selecting the Soundtracks & Audio Channels 46
- Changing the Camera Angle....46
- Repeat Play 47
- Zooming-In....48
- Using Markers....49
- Using the Bookmarks 50
- Playing an Audio CD/MP3....51
- Viewing a Picture....56
- Playing a DivX....58

Recording

- Recordable Discs 60
- Recording Formats 61
- Recording Mode....62
- Unrecordable pictures 63
- Recording immediately....64
- Copying from a Camcorder 66
- Making a One Touch Recording (OTR) 67
- Making a Timer Recording 68
  Editing the Scheduled List 70
  Adding a Scheduled List....70
  Deleting a Scheduled List....71
- Using the Video Plus+ Feature 72
- Video Plus+ Extended....73

Editing

- Basic Editing (Title List)....74
  Playing the Title 74
  Renaming (Labeling) a Title....74
  Locking (Protecting) a Title 75
  Deleting a Title 76
  Deleting a Section of a Title (Partial Delete) 77
- Using the Sort function (Title List)....78
- Navigation Menu....78
- Select Contents....79
- Advanced Editing (Playlist) 80
  Creating a Playlist 80
  Playing Entries in the Playlist 81
  Renaming a Playlist Entry....81
  Editing a Scene for the Playlist....82
  Deleting a Playlist Entry from the Playlist....84
  Using the Sort (Playlist) 84
- Disc Manager....85
  Editing the Disc Name 85
  Disc Protection....85
  Delete All Title Lists 86
  Formatting a Disc....86
  Finalising a Disc 87
  Unfinalising a Disc (V/VR mode) 88

Reference

- Troubleshooting....89
- Specifications....91
- Warranty 92

General Features

This unit allows you to record and playback high quality digital video on DVD-RAM/-RW/-R discs.
You can also edit digital images on DVD-RAM/-RW discs. (DVD+RW/+R discs can be played, but cannot be recorded.)

High quality digital audio and video recording and playback

You can record up to approximately 16-hours of video on a double side 9.4GB DVD-RAM disc, up to 15-hours on a dual-layer 8.5GB DVD-R disc, and up to 8-hours on a 4.7GB DVD-RAM/-RW/-R disc, depending on the recording mode.

Selectable Recording Mode

You can set your DVD Recorder to one of four different recording speeds, each varying in recording quality and length. EP (6Hr or 8Hr) mode yields the most recording time, LP & SP modes provide less recording time with higher quality recording, XP mode gives you the highest quality recording.
The dual layer DVD-Rs have approximately double the capacity of single layer DVD-Rs. (See page 40)

Automated Quality Adjustment for Timer Recording

If FR mode is selected, the video quality is adjusted automatically so that all video for the scheduled time can be recorded onto the free disc space.
(See page 68)

Creating a DVD video title using DVD-RW/-R disc

With the DVD Recorder, you can create your own DVD Video titles on 4.7 GB DVD-RW/-R discs.

Copying data from a digital camcorder using a DV input jack

Record DV Device video onto DVD-RAM/-RW/-R discs using the DV input jack (IEEE 1394-4pin/4pin).
(See page 66)

High quality progressive scan

Progressive scanning provides high resolution and flicker free video. The 10-bit 54-MHz DAC and 2D Y/C Separating Circuitry provides the highest image playback and recording quality. (See page 34)

DivX Certification

DivX, DivX Certified, and associated logos are trademarks of DivX Networks, Inc and are used under licence.

EZ Record Mode

This function allows you initialise and Finalise a disc automatically. (See page 30)

EPG functions

EPG is an Advanced Electronic Programme Guide. With a Remote Control Unit, you can operate full function.
It has a Auto and Manual Scan facility and Channel Organizing (programmable) facility.

Before reading the user's manual

Make sure to check the following terms before reading the user manual.

Icons that will be used in manual

Icon	Term	Definition
DVD-VIDEO	DVD	This involves a function available on DVD or DVD±R/-RW(V) discs that have been finalised.
DVD-RAM	RAM	This involves a function available on DVD-RAM.
DVD-RW	-RW	This involves a function available on DVD-RW.
DVD-R	-R	This involves a function available on DVD-R.
DVD+RW	+RW	This involves a function available on DVD+RW.
DVD+R	+R	This involves a function available on DVD+R.
CD	CD	This involves a function available on a data CD (CD-R or CD-RW).
JPEG	JPEG	This involves a function available on CD-R/-RW, DVD±R/±RW/-RAM discs.
MP3	MP3	This involves a function available on CD-R/-RW, DVD±R/±RW/-RAM discs.
DivX	DivX	This involves a function available on CD-R/-RW, DVD±R/±RW/-RAM discs.
!	Caution	This involves a case where a function does not operate or settings may be cancelled.
✎	NOTE	This involves tips or instructions on the page that help each function operate.
☝	One-Touch button	A function that can be operated by using only one button.

About the use of this user's manual

1) Be sure to be familiar with Safety Instructions before using this product. (See pages 2~6)
2) If a problem occurs, check the Troubleshooting. (See pages 89~90)

Copyright

©2007 Samsung Electronics Co.
All rights reserved; No part or whole of this user's manual may be reproduced or copied without the prior written permission of Samsung Electronics Co.

How to use the DVD Recorder

Step 1 : Select the disc type

Please check available disc type before recording.

DVD RAM DVD RW DVD R

(DVD+RW/DVD+R discs can be played, but cannot be recorded.)

If you want to repeatedly record on the same disc or you want to edit the disc after recording, select a rewritable DVD-RW or DVD-RAM type disc. If you want to save a recording without any changes, choose a non-rewritable DVD-R.

Step 2 : Format the disc to start recording

Unlike a VCR, the DVD Recorder starts formatting when an unused disc is inserted. This is required for the preparation of recording on a disc.

Using a DVD-RAM

This type of disc can be formatted in DVD-Video Recording format (VR mode). You can edit recorded images and create a playlist in a specific sequence according to your requirements.

Using a DVD-RW

This type of disc can be formatted in either DVD-Video format (V mode) or DVD-Video Recording format (VR mode). For an unused disc, a message that asks whether to initialise a disc or not. If you select "DVD-VR" or "DVD-V", initialising will be started. You can play a Video mode disc on various DVD components. A VR mode disc allows more varied editing.

Using a DVD-R

Formatting disc is unnecessary and only V Mode Recording is supported. You can play these type of discs on various DVD components only when they have been finalised.

✎

- You can only use either the VR or Video mode on a DVD-RW, but not both at the same time.
- You can format a DVD-RW to V or VR mode using **Disc Manager**. It should be noted that the disc's data will be lost when changing formats.

Step 3 : Recording

There are two different recording methods, Direct Recording and Timer Recording. Timer recording is classified as follows:

Recording mode : XP (high quality mode), SP (standard quality mode), LP (long recording mode), and EP (extended mode) according to the recording mode. When recording is set in the FR mode, the best quality picture is recorded with regards to the remaining time on the disc.

Step 4 : Playing

You can select the title you want to play in a displayed menu and then immediately start playback.

A DVD consists of sections, called titles, and sub-sections, called chapters.

During recording, a title is created between two points where you start and stop recording.
Chapters will be created automatically when you finalise recording on DVD-RW/-R discs in Video mode.
The chapter's length (interval between chapters) varies according to the recording mode.

Step 5 : Editing a recorded disc

Editing on discs is easier than conventional video tapes. The DVD Recorder supports many different edit functions, possible only with DVDs.
With a simple and easy edit menu, you can operate various edit functions, such as delete, rename, lock, etc., on a recorded title.

Creating a playlist (DVD-RAM/-RW in VR mode)
With this DVD Recorder, you can create a new playlist on a disc and edit it without the original, pre-existing recording.

Step 6 : Finalising & Playing on other DVD components

To play your DVD on other DVD components, finalising may be necessary. First, finish all editing and recording operations, then finalise the disc.

When using a DVD-RW disc in VR Mode
DVD discs recorded in VR mode can only be played back in DVD recorders, not players.

When using a DVD-RW disc in Video Mode
The disc should be finalised first to enable playback on anything other than this DVD Recorder. No more editing or recording can be made on the disc once it has been finalised.
To enable recording on the disc again, the disc must be unfinalised.

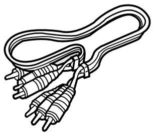
When using a DVD-R disc
You should finalise the disc to play it on a component other than this DVD Recorder. You cannot edit or record on the disc once it has been finalised.

- You can finalise the disc automatically using EZ Record function. (See page 30)

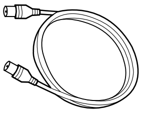
Unpacking

Accessories

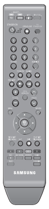
Check for the supplied accessories below.



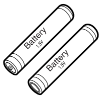
Video/Audio Cable



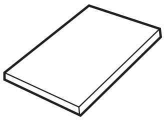
RF Cable for TV



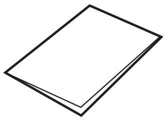
Remote Control



Batteries for Remote Control (AAA Size)



Instruction Manual



Quick Guide

Preparing the Remote Control

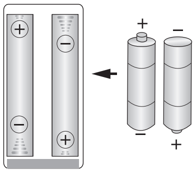
Install Batteries in the Remote Control

- Open the battery cover on the back of the remote control.
- Insert two AAA batteries. Make sure that the polarities (+ and –) are aligned correctly.
- Replace the battery cover.

If the remote does not operate properly :

- Check the polarity + – of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

Dispose of batteries according to local environmental regulations. Do not put them in the household trash.



To determine whether your television is compatible, follow the instructions below.

1. Switch your television on.
2. Point the remote control towards the television.
3. Press and hold the **TV STANDBY/ON** button and enter the two-figure code corresponding to the brand of your television, by pressing the appropriate number buttons.

Controllable TV Codes

BRAND	BUTTON
SAMSUNG	01, 02, 03, 04, 05, 06, 07, 08, 09
AIWA	82
ANAM	10, 11, 12, 13, 14, 15, 16, 17, 18
BANG & OLUFSEN	57
BLAUPUNKT	71
BRANDT	73
BRIONVEGA	57
CGE	52
CONTINENTAL EDISON	75
DAEWOO	19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34
EMERSON	64
FERGUSON	73
FINLUX	06, 49, 57
FORMENTI	57
FUJITSU	84
GRADIENTE	70
GRUNDIG	49, 52, 71
HITACHI	60, 72, 73, 75
IMPERIAL	52
JVC	61, 79
LG	06, 19, 20, 21, 22, 78
LOEWE	06, 69
LOEWE OPTA	06, 57
MAGNAVOX	40
METZ	57
MITSUBISHI	06, 48, 62, 65
MIVAR	52, 77
NEC	83
NEWSAN	68
NOBLEX	66
NOKIA	74
NORDMENDE	72, 73, 75
PANASONIC	53, 54, 74, 75
PHILIPS	06, 55, 56, 57
PHONOLA	06, 56, 57
PIONEER	58, 59, 73, 74
RADIOLA	06, 56
RADIOMARELLI	57
RCA	45, 46
REX	74
SABA	57, 72, 73, 74, 75
SALORA	74
SANYO	41, 42, 43, 44, 48
SCHNEIDER	6
SELECO	74
SHARP	36, 37, 38, 39, 48
SIEMENS	71
SINGER	57
SINUDYNE	57
SONY	35, 48
TELEAVA	73
TELEFUNKEN	67, 73, 75, 76
THOMSON	72, 73, 75
THOMSON ASIA	80, 81
TOSHIBA	47, 48, 49, 50, 51, 52
WEGA	57
YOKO	6
ZENITH	63

Result : If your television is compatible with the remote control, it will switch off.
It is now programmed to operate with the remote control.

- If several codes are indicated for your television brand, try each one in turn until you find one that works.
- If you replace the remote control's batteries, you must set the brand code again.

Then you can control the television using the following buttons after pressing the TV button.

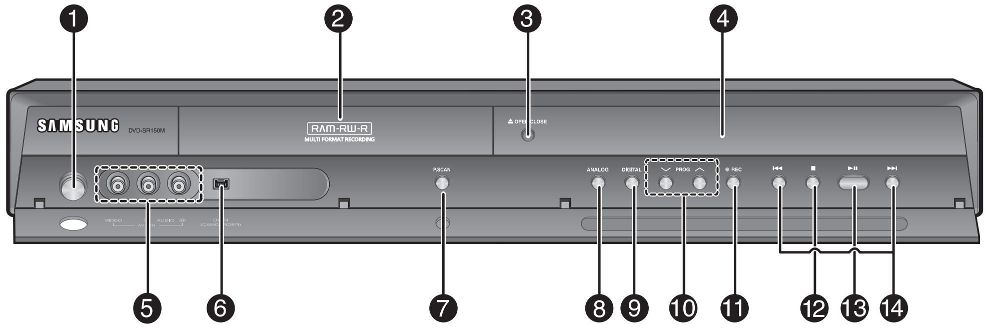
Button	Function
TV STANDBY/ON	Used to switch the television on and off.
INPUT SEL.	Used to select an external source.
TV VOL (+ –)	Used to adjust the volume of the television.
PROG (∧∨)	Used to select the desired channel.
TV MUTE	Used to toggle the sound on and off.
Number	Used to input number directly.

- The functions listed above will not necessarily work on all televisions. If you encounter problems, operate the television directly.

Description

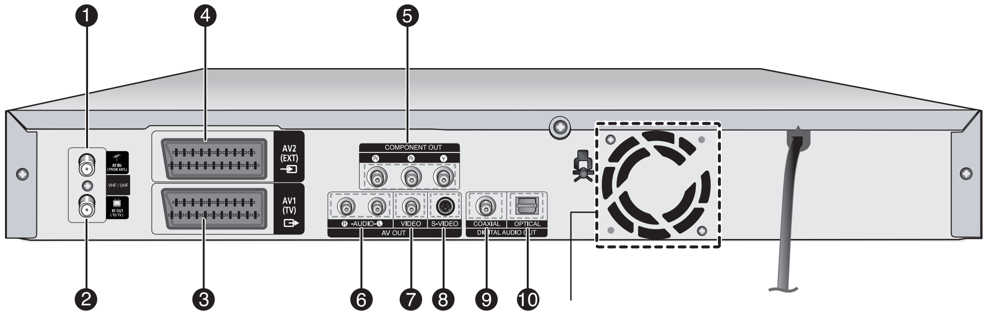
Front Panel

- **DVD-SR150M**


❶
❷
❸
❹
SAMSUNG
DVD-SR150M
RAM-RW-R
MULTI FORMAT RECORDING
OPEN/CLOSE
P.SCAN
ANALOG
DIGITAL
PROG
REC
❺
❻
❼
❽
❾
❿
⓫
⓬
⓭
⓮

1. **STANDBY/ON button**
   Turns the DVD Recorder on and off.
2. **DISC TRAY**
   Opens to accept a disc.
3. **OPEN/CLOSE button**
   Opens and closes the disc tray.
4. **DISPLAY**
   Displays the playing status, time, etc.
5. **AV 3 INPUT**
   Connect external equipment.
6. **DV-INPUT**
   Connect external digital equipment with a DV jack. (such as a camcorder)
7. **P.SCAN button**
   Selects the progressive scan mode.
8. **ANALOG button**
   Select ANALOG mode.
9. **DIGITAL button**
   Select DIGITAL mode.
10. **PROG buttons**
    Select TV preset Channels. Same as PROG button on the remote control.
11. **REC button**
    Starts recording.
12. **STOP button**
    Stops disc playback.
13. **PLAY/PAUSE button**
    Plays a disc or pauses playback.
14. **SEARCH/SKIP buttons**
    Goes to the next title/chapter/track or goes back to the previous title/chapter/track.

Rear Panel

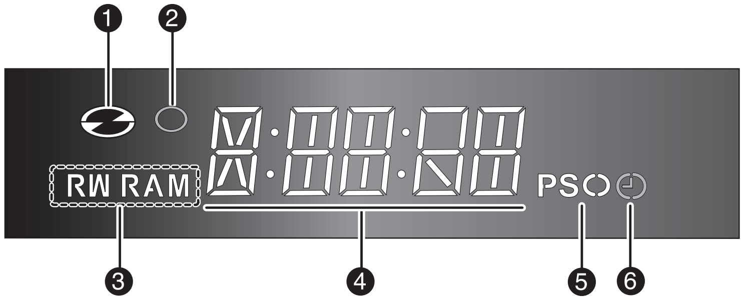

1
4
5
AV2 (EXT)
AV1 (TV)
COMPONENT OUT
RF IN (FROM ANT.)
VHF / UHF
RF OUT (TO TV)
AUDIO
VIDEO
S-VIDEO
AV OUT
COAXIAL
OPTICAL
DIGITAL AUDIO OUT
2
3
6
7
8
9
10

Fan
The fan always revolves when the power is on. Ensure a minimum of 10 cm clear space on all sides of the fan when installing the product.

1. **In from aerial connector**
2. **Out to TV connector**
3. **AV1(TV) OUTPUT SCART Connector**
4. **AV2(EXT) INPUT SCART Connector**
5. **COMPONENT VIDEO OUT**
   Connects to equipment having Component video input.
6. **AUDIO OUT**
   Connects to the audio input of external equipment using audio cables.
7. **VIDEO OUT**
   Connects the input of external equipment using a Video cable.
8. **S-VIDEO OUT**
   Connects the input of external equipment using an S-Video cable.
9. **DIGITAL AUDIO OUT(COAXIAL)**
   Connects to an amplifier having a digital coaxial audio input jack.
10. **DIGITAL AUDIO OUT(OPTICAL)**
    Connects to an amplifier having a digital optical audio input jack.

- The Antenna connection does not pass the output signal of the DVD Recorder.
  To watch output signal of the DVD Recorder, you must connect audio/video or Scart cables.

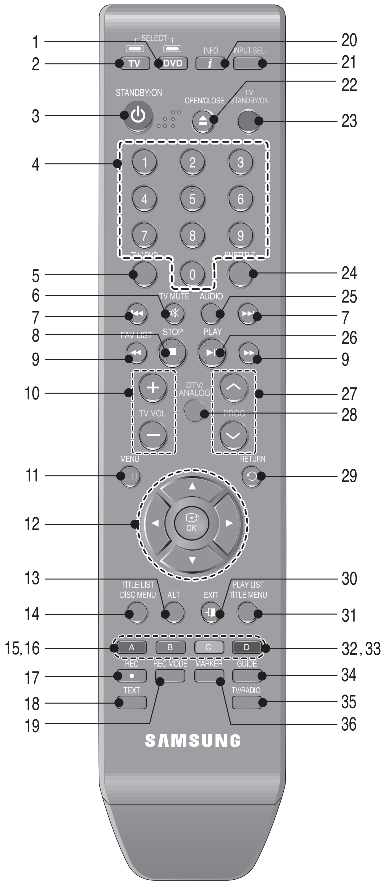
Front Panel Display


1
2
RW RAM
PS
3
4
5
6

1. Lights when a disc is loaded.
2. Lights in the record mode.
3. Lights when a DVD-RAM/±RW/±R disc is loaded.
4. Playing time/clock/current status indicator.
5. Lights in the progressive scan mode.
6. Lights to indicate the timer record mode.

Tour of the Remote Control

Your DVD Recorder remote control will work with Samsung televisions and compatible brands.


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15,16
17
18
19
20
21
22
23
24
25
7
26
9
27
28
29
30
31
32,33
34
35
36
SELECT
TV
DVD
INFO
INPUT SEL.
STANDBY/ON
OPEN/CLOSE
TV STANDBY/ON
1
2
3
4
5
6
7
8
9
0
TV/DVD
SUBTITLE
TV MUTE
AUDIO
FAV LIST
STOP
PLAY
DTV/ANALOG
TV VOL
PROG
MENU
RETURN
OK
TITLE LIST DISC MENU
ALT
EXIT
PLAY LIST TITLE MENU
A
B
C
D
REC
REC MODE
MARKER
GUIDE
TEXT
TV/RADIO
SAMSUNG

1. **DVD button**
   Press this to operate DVD.
2. **TV button**
   Press this to operate TV.
3. **STANDBY/ON button**
4. **NUMBER buttons**
5. **TV/DVD button**
6. **TV MUTE button**
   In TV mode, this operates as sound mute.
7. **REVERSE/FORWARD SKIP buttons**
   Press to skip backwards or forwards.
8. **STOP button**
   Press to stop a disc.
9. **FAV LIST/REVERSE SEARCH, FORWARD SEARCH buttons**
   When you use DTV, press this button to switch between favorit list.
   Press to search a disc backwards or forwards.
10. **TV VOL button**
    TV volume adjustment.
11. **MENU button**
    Brings up the DVD Recorder's setup menu.
12. **OK/DIRECTION buttons (▲▼◄ ► buttons)**
13. **ALT button**
    When you use DTV, press this button to select the Audio track.
14. **TITLE LIST/DISC MENU button**
    Use this to enter the View Recording list/disc menu.
15. **RED(A) button**
16. **GREEN(B) button**
17. **REC button**
    Use to make a recording on DVD-RAM/-RW/-R discs.
18. **TEXT button**
    When you use DTV, press this button to using the digital text service.
19. **REC MODE button**
    Use this to set the desired recording time and picture quality. (XP/SP/LP/EP).
20. *i* **INFO button**
    Press to display the programme information box in the screen when you use DTV.
    Allows access to common functions of the DVD Recorder. (See page 45.)
21. **INPUT SEL. button**
    Select input signal in external input mode (PROG, AV1, AV2, AV3 or DV input)
22. **OPEN/CLOSE button**
    To open and close the disc tray.
23. **TV STANDBY/ON button**
24. **SUBTITLE button**
    When you use DTV, press this button to select the subtitle.
    Press this to switch DVD's subtitle language.
25. **AUDIO button**
    Use this to access various audio functions on a disc. (DVD mode)
26. **PLAY/PAUSE button**
    Press to play/pause a disc.
27. **PROG button**
    Use this to select a TV programme.
28. **DTV/ANALOG button**
    Select Digital/Analogue broadcasting.
29. **RETURN button**
30. **EXIT button**
31. **PLAY LIST/TITLE MENU button**
    Use this to return to the Title menu, or to view the recorded files list.
32. **YELLOW(C) button**
33. **BLUE(D) button**
34. **GUIDE button**
    Press this to switch programme guide.
35. **TV/RADIO button**
    In **DTV** mode, press this to switch TV or Radio mode.
36. **MARKER button**
    Use this to bookmark a position while playing a disc.

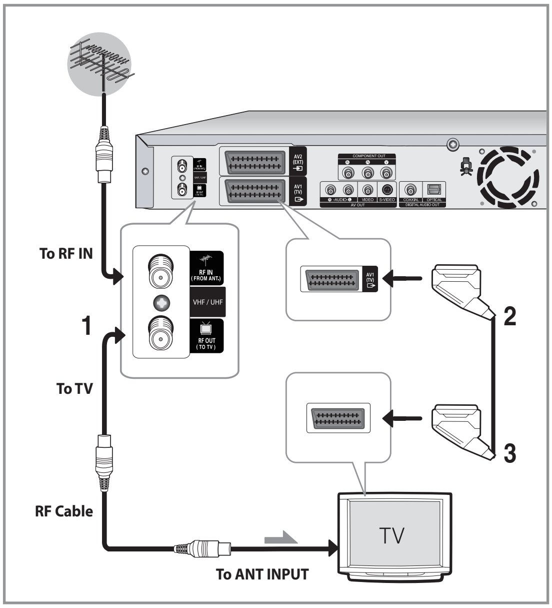
Connecting & Setting Up

Connecting the DVD Recorder

This section involves various methods of connecting the DVD Recorder to other external components and required initial setting modes.

You can connect your DVD Recorder to the television using the SCART cable if the appropriate input is available on the television.

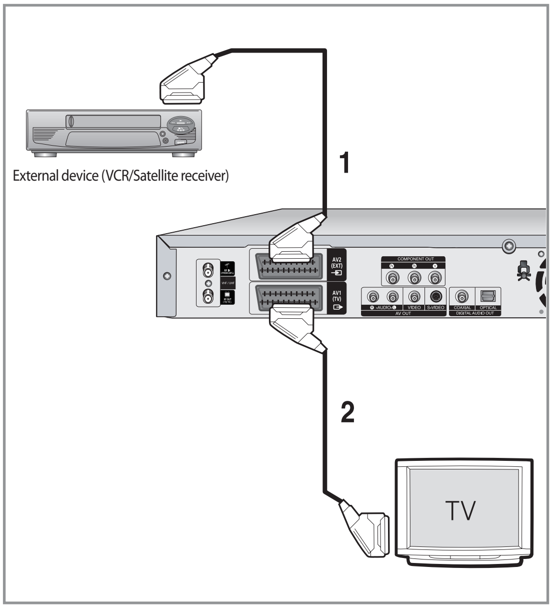
1. Connect the RF cable as shown.
2. Connect one end of the SCART cable to the AV1 socket on the rear of the DVD Recorder.
3. Plug the other end into the appropriate connector on the television.
4. Plug in the DVD Recorder and TV
5. Turn on the DVD Recorder and TV.
6. Press the **INPUT SEL.** button on your TV remote control until the Video signal from the DVD Recorder appears on the TV screen.



- The RF cable connection of this product sends only signals of TV. You must connect SCART cable or Audio/Video cables to watch output from your DVD Recorder.

Additional connections

You can connect your DVD Recorder to a External device (VCR/Satellite receiver).



- DVD mode

1. Connect the AV2 connector of DVD Recorder and External device (VCR/Satellite receiver) using a SCART cable.
2. Connect the AV1 connector to the SCART AV connector on TV.
3. Turn on the DVD Recorder, External device (VCR/ Satellite receiver) and TV.
4. Set Input mode on AV2.

- TV mode

1. Press the **TV/DVD** button on remote control, then "TV" appear on Front LED display. (or turn off DVD Recorder.)
2. You can watch programmes from a satellite or digital tuner connected to this DVD Recorder, even when the DVD Recorder is turned off.

Other type of connecting the Video output cable

There are several ways to output video signal not using scart cables. Select one of the following video connecting that best suits you below.

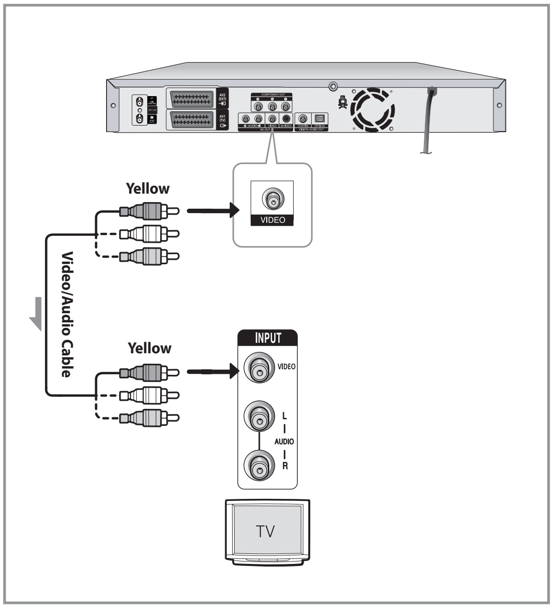
- **Case 1** : Connecting to a Video (Composite) output jack
- **Case 2** : Connecting to an S-Video output jack
- **Case 3** : Component Video output jacks

S-Video, Component video and Progressive Output Modes

- S-Video and Component video output are available only if your TV supports S-Video input or Component video input, respectively. If S-Video or Component video output does not work, check the TV connections and the TV input selection settings.
- Compared to standard interlaced video, progressive scan doubles the amount of video lines fed to your TV, resulting in a more stable, flicker-free, clear image than interlaced video. This is only available with TVs that support progressive scan.
- Progressive Scan Output (576P)
  Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture, in case of 576 progressive scan picture problems, It is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 576P DVD Recorder, please contact our customer service centre.

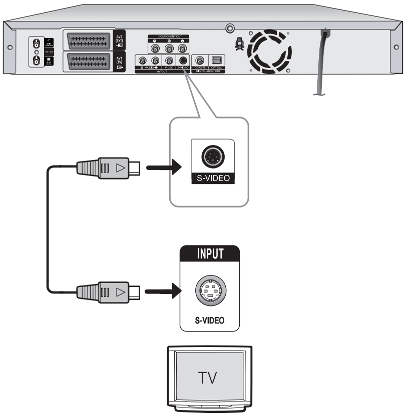
Case 1 : Connecting to a Video (Composite) output jack

1. Connect a video (Yellow) cable between the VIDEO (yellow) OUT jack on DVD Recorder and VIDEO (yellow) INPUT jack on your TV (or AV amplifier).
   - You will enjoy regular quality images.
2. Connect audio cables (white and red) between the AUDIO OUT jacks on the DVD Recorder and AUDIO IN jacks on TV (or AV amplifier).
   (See pages 20~21)



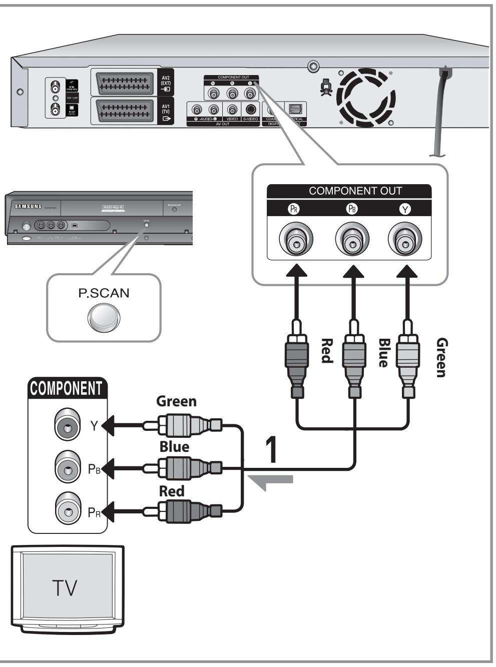
Case 2 : Connecting to an S-Video output jack

1. Connect an S-Video cable (not included) between the S-VIDEO OUT jack on DVD Recorder and S-VIDEO INPUT jack on your TV (or AV amplifier).
   - You will enjoy high quality images.
2. Connect audio cables (white and red) between the AUDIO OUT jacks on DVD Recorder and AUDIO IN jacks on TV (or AV amplifier).
   (See pages 20~21)



Case 3 : Component Video output jacks

1. Connect Component video cables(not supplied) between the COMPONENT OUT(Y, P_B, P_R) jacks on DVD Recorder and COMPONENT IN(Y, P_B, P_R) jacks on your TV.
   - You will enjoy high quality and accurate colour reproduction images.
2. Connect audio cables (white and red) between the AUDIO OUT jacks on the DVD Recorder and AUDIO IN jacks on TV (or AV amplifier).
   (See pages 20~21).
3. After connecting, refer to the page 34.



- Make sure that the colour coded connections match. The Y, PB, PR component output jacks of your DVD Recorder must be connected to the exact corresponding component input jacks on your TV.
- Progressive setting is only available when the Video Out is set to Component.
  (See page 33)

Other type of connecting the Audio output cable

There are several ways to output audio signal not using scart cables. Select the audio connection that best suits you below.

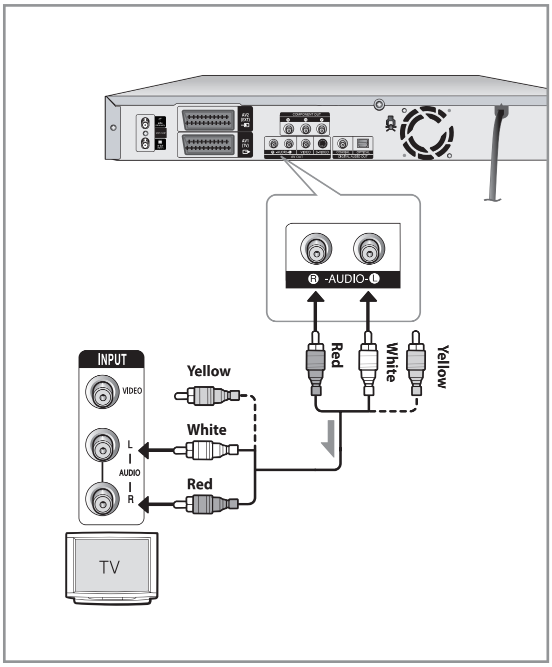
- **Case 1** : Connecting to your TV
- **Case 2** : Connecting to a stereo amplifier with AV output jacks
- **Case 3** : Connecting to an AV amplifier with a digital output jack

Manufactured under licence from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

“DTS” and “DTS Digital Out” are trademarks of DTS, Inc.

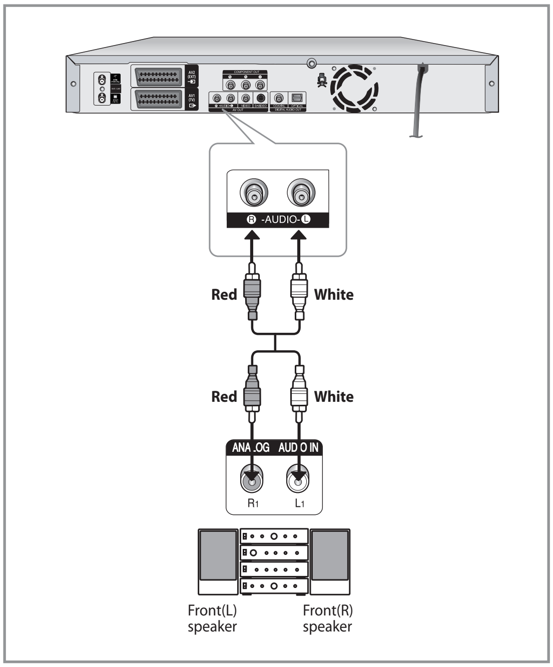
Case 1 : Connecting to your TV

If your TV has audio input jacks, use this connection.


R -AUDIO- L
Red
White
Yellow
INPUT
VIDEO
L
AUDIO
R
Yellow
White
Red
TV

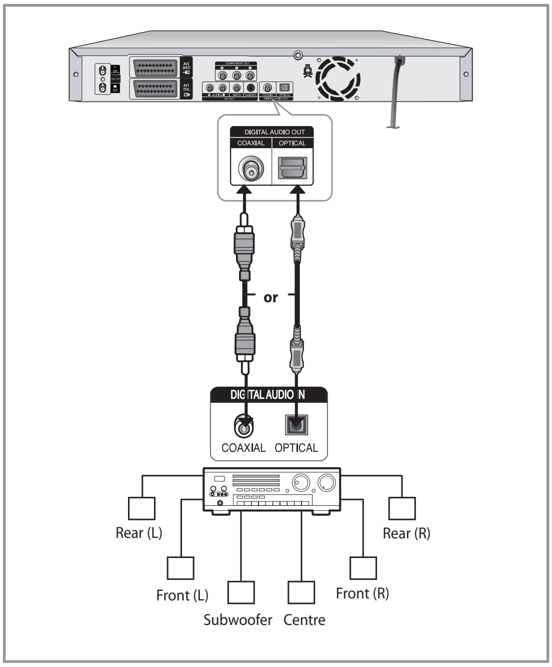
Case 2 : Connecting to a stereo amplifier with AV output jacks

If your stereo amplifier only has AUDIO INPUT jacks (L and R), use the AUDIO OUT jacks


R -AUDIO- L
Red
White
Red
White
ANALOG AUDIO IN
R1
L1
Front(L) speaker
Front(R) speaker

Case 3 : Connecting to an AV amplifier with a digital output jack

If your AV amplifier has a Dolby Digital, MPEG2 or DTS decoder and a digital input jack, use this connection. To enjoy Dolby Digital, MPEG2 or DTS sound, you will need to set up the audio settings. According to your amplifier, connect to an optical cable or a coaxial cable.
(See pages 31~32)


DIGITAL AUDIO OUT
COAXIAL
OPTICAL
or
DIGITAL AUDIO IN
COAXIAL
OPTICAL
Rear (L)
Rear (R)
Front (L)
Front (R)
Subwoofer
Centre

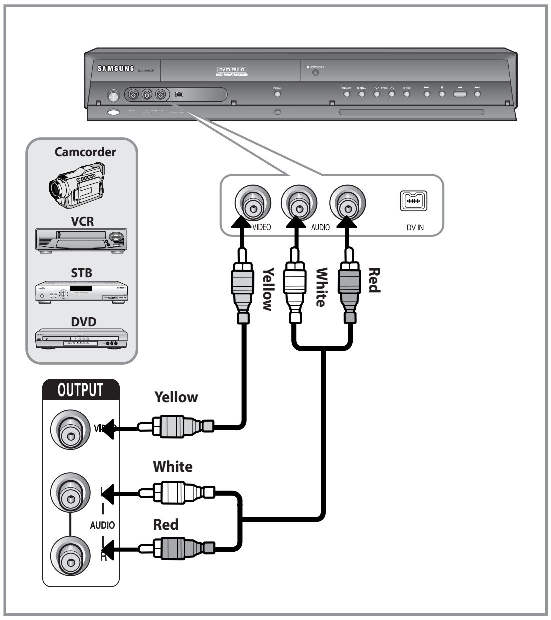
Connecting to AV 3 IN, DV input jack

This allows you to connect your DVD Recorder to other external devices and view or record their outputs.

- **Case 1** : Connecting a VCR, Set-Top Box(STB), DVD player or Camcorder to the AV 3 IN jacks
- **Case 2** : Connecting a Camcorder to the DV IN jack

Case 1 : Connecting a VCR, Set-Top Box(STB), DVD player or Camcorder to the AV 3 IN jacks

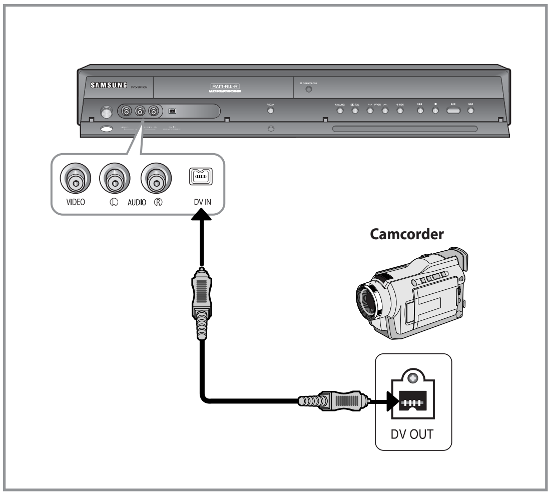
Connecting a VCR or external device to AV 3 IN jacks of the DVD Recorder. You can record from connected equipment (VCR, STB, DVD player or Camcorder).


SAMSUNG
Camcorder
VCR
STB
DVD
VIDEO
AUDIO
DV IN
Yellow
White
Red
OUTPUT
VIDEO
Yellow
White
L
AUDIO
Red
R

- AV 3 in selection will be automatically done. If the input is not selected automatically, use **INPUT SEL.** button to select proper input.
- Copy protected content cannot be recorded.

Case 2 : Connecting a Camcorder to the DV IN jack

If your digital camcorder has a DV output jack, connect it to the DV input jack of your DVD Recorder.

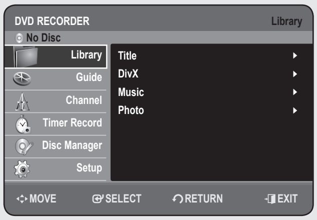

VIDEO
L AUDIO R
DV IN
Camcorder
DV OUT

- If the input is not selected automatically, use **INPUT SEL.** button to select proper input.

System Setup

On-Screen Menu Navigation

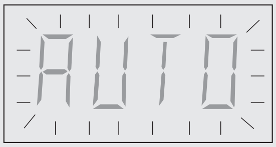
The on-screen menus allow you to enable or disable various functions on your DVD Recorder.
Press the MENU button to open the on-screen menu and then use the following buttons to navigate through the on screen menus.


DVD RECORDER
Library
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Title
DivX
Music
Photo
MOVE
SELECT
RETURN
EXIT

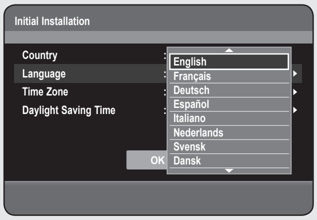
1. **▲▼, ◄►** buttons
   Press these buttons on the remote control to move the selection bar ▲▼, ◄► to cycle through the menu options.
2. **OK** button
   Press this button on the remote control to confirm any new settings.
3. **RETURN** button
   Press this button on the remote control to return to the Previous menu screen displayed or to exit the on-screen menu.
4. **EXIT** button
   Press this button to exit the on-screen **menu**.

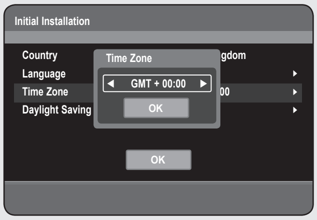
Plug & Auto Setup

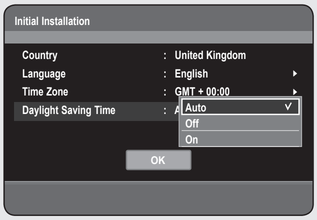
Your DVD Recorder will automatically set itself up when it is plugged in for the first time. TV stations and clock will be stored in memory.
The process takes a few minutes. Your DVD Recorder will then be ready for use.



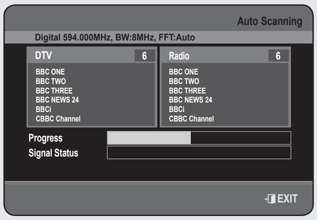
1. Connect the RF cable as indicated on page 17.
   (Connecting Your DVD Recorder to the TV Using the RF Cable and scart cable.)
2. Plug the DVD Recorder into the mains. "AUTO" in the front panel display flickers.
3. Press the **OK** or ► button, then **Language** option display.
   Press the ▲▼ buttons to select the desired language option, then press the **OK** button.
4. Press the **OK** or ► button, then **Time Zone** option display.
   Press the ◄► buttons to select the desired time zone option.
   Press the ▲▼ buttons to select **OK**, then press the **OK** button.
5. Press the **OK** or ► button, then **Daylight Saving Time** option display.
   Press the ▲▼ buttons to select **Auto**, **On** or **Off**, then press the **OK** button.
   If you select Auto, then Daylight Saving Time will change automatically when it is time to change the data.


Initial Installation
Country
Language
Time Zone
Daylight Saving Time
English
Français
Deutsch
Español
Italiano
Nederlands
Svensk
Dansk
OK


Initial Installation
Country
Language
Time Zone
Daylight Saving
Time Zone
GMT + 00:00
OK
OK

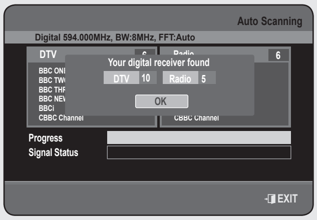

Initial Installation

Country : United Kingdom
Language : English
Time Zone : GMT + 00:00
Daylight Saving Time : Auto
Auto
Off
On
OK


Auto Scanning
Progress
Signal Status
EXIT

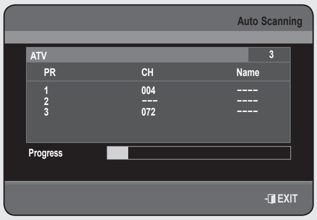
Digital 594.000MHz, BW:8MHz, FFT:Auto

DTV	6	Radio	6
BBC ONE BBC TWO BBC THREE BBC NEWS 24 BBCi CBBC Channel		BBC ONE BBC TWO BBC THREE BBC NEWS 24 BBCi CBBC Channel	


Auto Scanning
Digital 594.000MHz, BW:8MHz, FFT:Auto
DTV
Radio
Progress
Signal Status
OK
EXIT

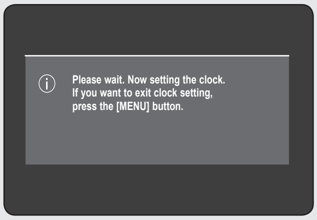
Your digital receiver found

DTV 10 Radio 5

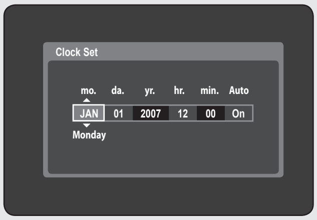

Auto Scanning
Progress
EXIT

ATV 3

PR	CH	Name
1	004	----
2	---	----
3	072	----



Please wait. Now setting the clock.
If you want to exit clock setting,
press the [MENU] button.



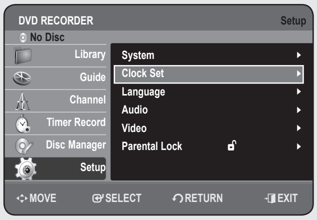
mo.	da.	yr.	hr.	min.	Auto
JAN	01	2007	12	00	On
Monday					

6. Press the ▼ button to select **OK**, then press the **OK** button.
   Digital auto scan will be started.
7. After auto channel scan is completed, the message " Your digital receiver found" will be displayed.
8. Press the **OK** button.
   Analogue auto scan will be started.
9. After auto channel scan is completed, auto clock setting will be started automatically in 10 seconds. If you want to start auto clock setting immediately, press **OK** button.
10. Wait until current date and time are displayed automatically. If you want to exit auto clock setting, press **MENU** button.

- Now, DVD Recorder is ready for use. Function for "Plug & Auto Setup" is fixed already. So if you want to change this fixed one, you can change it by Presetting the Stations in OSD "Channel Set - Manual Setup" menu. (See pages 26~27)

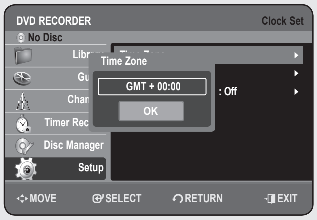
11. Check the date and time.
    - If it is : Correct, press **OK** button then the date and time will be saved. If you don't press the **OK** button, the date and time will be saved automatically after 5 seconds.
    - If it is : Incorrect, input correct **Month, Day, Year, Hour** or **Minute** using ▲▼, ◄► buttons or number buttons. Press **OK** button then the date and time will be saved. When you need to change clock setting, you can set up it manually.

Clock Set


DVD RECORDER
Setup
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
System
Clock Set
Language
Audio
Video
Parental Lock
MOVE
SELECT
RETURN
EXIT

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Clock Set**, then press the **OK** or ► button.

Time Zone


DVD RECORDER
Clock Set
No Disc
Libr
Gu
Char
Timer Rec
Disc Manager
Setup
Time Zone
GMT + 00:00
OK
: Off
MOVE
SELECT
RETURN
EXIT

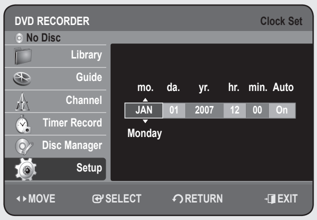
To setup, follow steps 1~3 in page 24.

4. Press the ▲▼ buttons to select **Time Zone**, then press the **OK** or ▶ button. Select the time zone of your area using the ◀▶ buttons, then select **OK** using ▲▼ button.

◆ **GMT (Greenwich Mean Time) Table**

Country	GMT	City
United Kingdom, Portugal	GMT+0	Dublin, Edinburgh, London, Lisbon, Casablanca
France, Austria, Belgium, Demark, Deutschland, Netherlands, Italy, Norway, Spain, Sweden, Swiss, Hungary, Czech	GMT+1	Berlin, Stockholm, Rome, Vienna, Paris, Madrid, Prague, Warsaw, Brussel, Copenhagen, Oslo, Bern, Budapest, Warszawa, Prague
Finland, Turkey, Greece	GMT+2	Athens, Helsinki, Istanbul, Cairo, Eastern Europe, Pretoria, Israel

Manual clock set

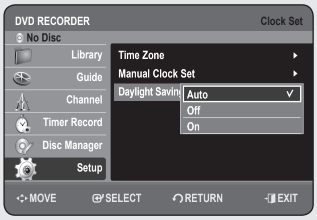

DVD RECORDER
Clock Set
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
mo.
da.
yr.
hr.
min.
Auto
JAN
01
2007
12
00
On
Monday
MOVE
SELECT
RETURN
EXIT

To setup, follow steps 1~3 in page 24.

4. Press the ▲▼ buttons to select **Manual Clock Set**, then press the **OK** or ▶ button. Use the ▲▼◀ ▶ buttons to input Time, Date or Year. Use number buttons to input clock data directly.
5. Press the **OK** button, then the date and time will be saved. If you don't press the **OK** button, it will not be saved.

- You must have the RF cable connected to set the Auto Clock. (See page 17)
- The DVD Recorder automatically sets the clock according to the time signal broadcast between the channels PR1 to PR5. If there is no clock in the analogue broadcast, the clock will be searched automatically in the DVB-T. If you do not need the Auto clock set function, select **Off**.
- If there is a difference between the time information of analogue and the one of digital, you may not be available to the contents of DVB-T normally.

Daylight Saving Time


DVD RECORDER
Clock Set
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Time Zone
Manual Clock Set
Daylight Savin
Auto ✓
Off
On
MOVE
SELECT
RETURN
EXIT

To setup, follow steps 1~3 in page 24.

4. Press the ▲▼ buttons to select **Daylight Saving Time**, then press **OK** or ▶ button.
5. Select the **Auto**, **Off** or **On** using the ▲▼ buttons, then press the **OK** or ▶ button. If you select Auto, then Daylight Saving Time will change automatically when it is time to change the data

Channel Set

This menu consist of 5 sub-menus (Digital Channel List, Digital Favorite Channel, Auto Setup, Digital Manual Setup, Analogue Manual Setup).

Auto Setup

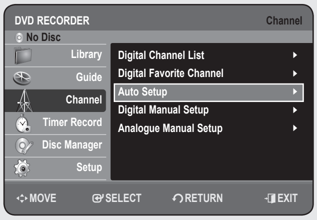
This function allows you to download of the channels automatically from the programmed load.

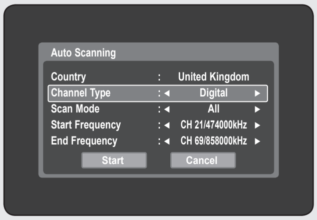
1. Press the **MENU** button.
2. Press the ▲▼ buttons to select **Channel**, then press **OK** or ► button.
3. Press the ▲▼ buttons to select **Auto Setup**, then press **OK** or ► button.
4. Press the ▲▼◄► buttons to select **desired options**.

- **Channel Type** : Press the ◄► buttons to select Digital, Analogue or All. (If you select Analogue, you can not select the Scan Mode, Start frequency and End frequency.)
- **Scan Mode** : - Only Free : Receives signals except for the scrambled signal.
  - All : Receives signals including the scrambled signal.
- **Start Frequency/End Frequency**

5. Press the ▲▼ button to select **Start**, then press **OK** button. **Auto Scan** will be started.

- You can select RADIO mode by pressing the **TV/RADIO** button on the remote control. This button used to toggle the TV and RADIO mode.

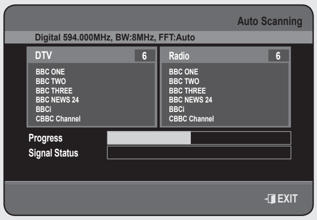

DVD RECORDER
Channel
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Digital Channel List
Digital Favorite Channel
Auto Setup
Digital Manual Setup
Analogue Manual Setup
MOVE
SELECT
RETURN
EXIT


Auto Scanning

Country : United Kingdom
Channel Type : ◄ Digital ►
Scan Mode : ◄ All ►
Start Frequency : ◄ CH 21/474000kHz ►
End Frequency : ◄ CH 69/858000kHz ►

Start
Cancel

(Channel Type : Digital)

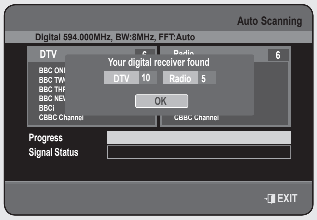

Auto Scanning

Digital 594.000MHz, BW:8MHz, FFT:Auto

DTV 6: BBC ONE, BBC TWO, BBC THREE, BBC NEWS 24, BBCi, CBBC Channel

Radio 6: BBC ONE, BBC TWO, BBC THREE, BBC NEWS 24, BBCi, CBBC Channel

Progress
Signal Status
EXIT

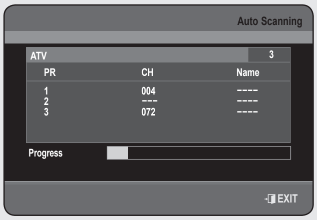

Auto Scanning

Digital 594.000MHz, BW:8MHz, FFT:Auto

Your digital receiver found
DTV 10 Radio 5

DTV
6
BBC ONE
BBC TWO
BBC THREE
BBC NEWS
BBCi
CBBC Channel
Radio
6
CBBC Channel
OK
Progress
Signal Status
EXIT

(Channel Type : Analogue)

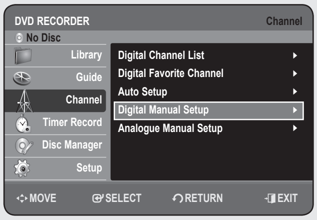

Auto Scanning

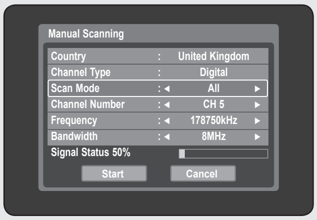
ATV 3

PR	CH	Name
1	004	----
2	---	----
3	072	----

Progress
EXIT

Digital Manual Setup

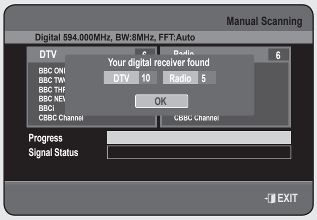

DVD RECORDER
Channel
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Digital Channel List
Digital Favorite Channel
Auto Setup
Digital Manual Setup
Analogue Manual Setup
MOVE
SELECT
RETURN
EXIT


Manual Scanning

Country	:	United Kingdom
Channel Type	:	Digital
Scan Mode	: ◄	All ►
Channel Number	: ◄	CH 5 ►
Frequency	: ◄	178750kHz ►
Bandwidth	: ◄	8MHz ►

Signal Status 50%

Start
Cancel


Manual Scanning

Digital 594.000MHz, BW:8MHz, FFT:Auto

Your digital receiver found

DTV 10 Radio 5

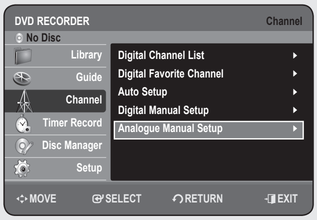
DTV
6
Radio
6
BBC ONE
BBC TWO
BBC THREE
BBC NEWS
BBCi
CBBC Channel
CBBC Channel
OK
Progress
Signal Status
EXIT

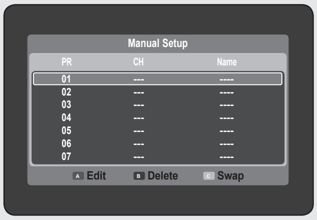
To tune-in new channels, the DVD Recorder has been provided with the option Manual Scan where the channel data can be entered by user.

To setup, follow steps 1~2 in page 26.

3. Press the ▲▼ buttons to select **Digital Manual Setup**, then press **OK** or ► button.
4. Select the **Channel Number** which you want to find using ◄► buttons.
   Select **Frequency** and input the Frequency of the channel you want to find by pressing the number button.
   Select **Bandwidth** which you want to find using ◄► buttons.
   When the valid frequency is input, the bandwidth is selected automatically. You can select the value of 6,7 or 8 MHz. After select option. Press **OK** button to start the scanning process.

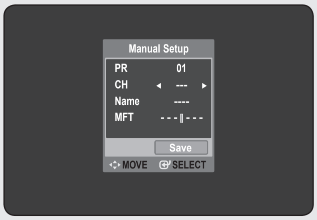
Analogue Manual Setup


DVD RECORDER
Channel
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Digital Channel List
Digital Favorite Channel
Auto Setup
Digital Manual Setup
Analogue Manual Setup
MOVE
SELECT
RETURN
EXIT


Manual Setup

PR	CH	Name
01	---	----
02	---	----
03	---	----
04	---	----
05	---	----
06	---	----
07	---	----

A Edit
B Delete
C Swap


Manual Setup

PR 01
CH ◄ --- ►
Name ----
MFT - - - ‖ - - -

Save
MOVE
SELECT

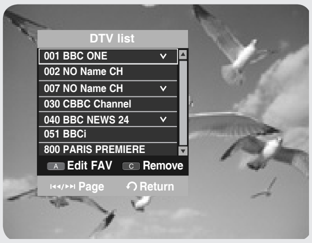
To setup, follow steps 1~2 in page 26.

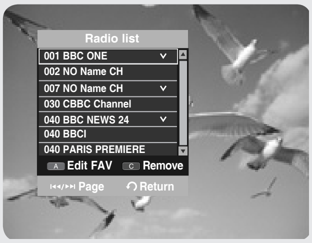
3. Press the ▲▼ buttons to select **Analogue Manual Setup**, then press **OK** or ► button.
4. Press the ▲▼ buttons to select a **PR**(programme) you wish to edit, delete, or swap, then press the **COLOUR** button.
   Select **Edit**, **Delete** or **Swap**.
   - **In case of Edit (RED(A) button)** : You can add or edit PR(programme) information. After change PR informations (**CH.**, **Name**, **MFT**), select **Save**, then press the **OK** button.
     - **CH** : Tune the channel using ◄► buttons.
     - **Name** : Display station name automatically detected in broadcasting signal. If not detected, you can edit name by using ▲▼◄► buttons.
     - **MFT(Manual Frequency Tunning)** : You can tune up the channel frequency better using ◄► buttons.
   - **In case of Delete (GREEN(B) button)** : the channel information of selected PR(programme) will be removed.
   - **In case of Swap (YELLOW(C) button)** : You can swap the channel information of two PR(programme). For example, if you wish to swap PR2 and PR5, select swap at PR2, then press the **OK** button at PR5.

Digital Channel List

This function is possible in DVB-T mode only.
This function is used to edit the favorite channel list or delete the channel.

To setup, follow steps 1~2 in page 26.


DTV list
001 BBC ONE
002 NO Name CH
007 NO Name CH
030 CBBC Channel
040 BBC NEWS 24
051 BBCi
800 PARIS PREMIERE
A Edit FAV
C Remove
Page
Return


Radio list
001 BBC ONE
002 NO Name CH
007 NO Name CH
030 CBBC Channel
040 BBC NEWS 24
040 BBCI
040 PARIS PREMIERE
A Edit FAV
C Remove
Page
Return

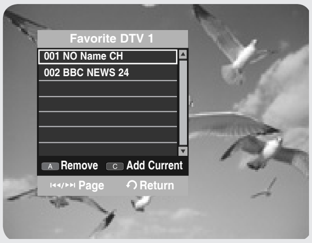
3. Press the ▲▼ buttons to select **Digital Channel List**, then press **OK** or ► button.
4. To edit the current channel to the Digital Channel List, press the **RED(A)** button.
   To delete a channel from the Digital Channel List, press the **YELLOW(C)** button.
   Press the **OK** button to watch that channel.

- Press **OK** button in the DVB-T view to display the Digital channel list.
- Press **FAV LIST** button 5 times in the DVB-T view to display the channel list.
- You can select RADIO mode by pressing the **TV/RADIO** button on the remote control.
  This button used to toggle the TV and RADIO mode.

Digital Favorite Channel

This function is possible in DVB-T mode only.
You can immediately register the present channel to the Digital Favorite Channel list.

To setup, follow steps 1~2 in page 26.

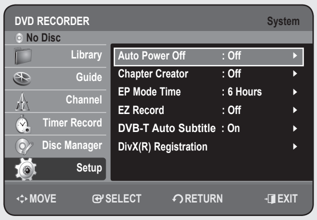

Favorite DTV 1
001 NO Name CH
002 BBC NEWS 24
A Remove
C Add Current
Page
Return

3. Press the ▲▼ buttons to select **Digital Favorite Channel**, then press **OK** or ► button.
4. To add the current channel to the Digital Favorite channels, press the **YELLOW(C)** button.
   To delete a favorite channel from the Digital Favorite channel list, press the **RED(A)** button.
   Press the **OK** button to watch that channel.

- You can also operate this function by pressing the **FAV LIST** button on the remote control.
- You can make Digital favorite channel up to 8. (TV favorite list: 4, Radio favorite list:4)

Setting up the System Options

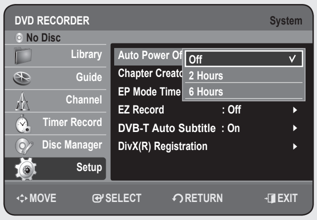
This function allows you to setup the system setting.


DVD RECORDER
System
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
MOVE
SELECT
RETURN
EXIT

Auto Power Off : Off
Chapter Creator : Off
EP Mode Time : 6 Hours
EZ Record : Off
DVB-T Auto Subtitle : On
DivX(R) Registration

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **System**, then press the **OK** or ► button.
4. Press the ▲▼ buttons to select the desired system option, then press the **OK** or ► button.
5. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.

Auto Power Off Setting


DVD RECORDER
System
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Auto Power Off
Chapter Creator
EP Mode Time
EZ Record : Off
DVB-T Auto Subtitle : On
DivX(R) Registration
Off
2 Hours
6 Hours
MOVE
SELECT
RETURN
EXIT

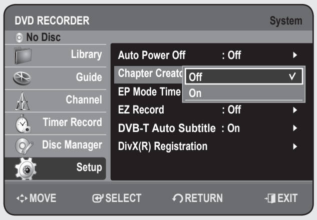
This feature automatically turns off your DVD Recorder, if you do not press any button for the selected time.

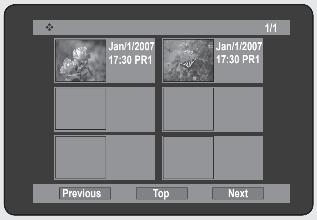
1. Press the ▲▼ buttons to select **Auto Power Off**, then press the **OK** or ► button.
2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.
   - **Off** : Auto power off is disabled.
   - **2 Hours** : DVD Recorder will automatically turn off for 2 hours after the last button is pressed.
   - **6 Hours** : DVD Recorder will automatically turn off for 6 hours after the last button is pressed.
   - If the turn off time set with the Auto Power off function is reached during playback or recording, the device will operate until the playback or recording is finished.

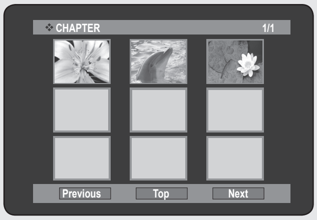
- If you off and on the DVD Recorder, the option will be returned to default.

Automatic Chapter Creator

DVD-RW DVD-R
(V-mode)


DVD RECORDER
System
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Auto Power Off : Off
Chapter Creator
EP Mode Time
EZ Record : Off
DVB-T Auto Subtitle : On
DivX(R) Registration
Off
On
MOVE
SELECT
RETURN
EXIT


1/1
Jan/1/2007 17:30 PR1
Jan/1/2007 17:30 PR1
Previous
Top
Next


CHAPTER
1/1
Previous
Top
Next

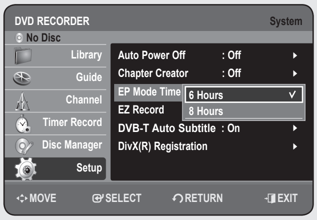
A DVD-Video consists of 'Titles' and 'Chapters'.
When you record one programme, it makes one Title.
If you use this function, the Title will be divided into Chapters.

1. Press the ▲▼ buttons to select **Chapter Creator**, then press the **OK** or ► button.
2. Press the ▲▼ buttons to select **Off** or **On**, then press the **OK** or ► button.
   - **Off** : Select if you do not want use Automatic Chapter Creator.
   - **On** : Select this option to use the Automatic Chapter Creator feature.

   Press the **EXIT** button to exit the menu.
3. Press the **REC** button to start recording.
   (See page 62 about how to set recording speed)
   The message "Do you want to create the chapter menu after this recording?" is displayed.
4. Press the ◄► buttons to select **OK**, then press the OK button.
   - A new chapter is created according to the selected recording mode. A chapter will be about 5 minutes long in XP and SP, and about 15 minutes long in LP and EP mode.
5. Press the **STOP** button to stop recording.
6. To display the created titles, finalise the disc (See page 87) and then press the **TITLE MENU** button. The title menu will be displayed.
7. To display the created chapters, select the desired Title and then press the **DISC MENU** button. The chapter menu for the selected Title will be displayed.

- The Automatic Chapter Creator function does not work during Timer Recording or when you turn the power off.

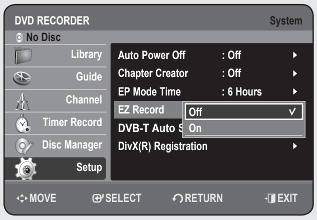
EP Mode Time Setting

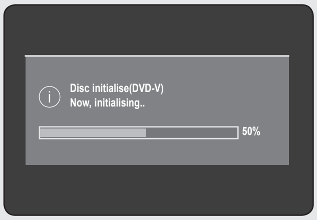

DVD RECORDER
System
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Auto Power Off : Off
Chapter Creator : Off
EP Mode Time
6 Hours ✓
8 Hours
EZ Record
DVB-T Auto Subtitle : On
DivX(R) Registration
MOVE
SELECT
RETURN
EXIT

You can select one of four recording modes by pressing the REC MODE button repeatedly.
EP mode is one of four REC Mode (XP, SP, LP, EP).
In EP(Extended Play) mode, you can set recording time to 6 or 8 hours with this setting.

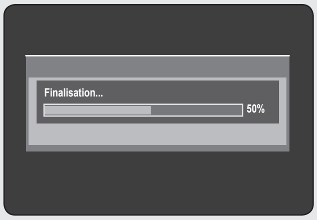
- 6 Hours
- 8 Hours

EZ Record


DVD RECORDER
System
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Auto Power Off : Off
Chapter Creator : Off
EP Mode Time : 6 Hours
EZ Record
Off ✓
On
DVB-T Auto S
DivX(R) Registration
MOVE
SELECT
RETURN
EXIT



Disc initialise(DVD-V)
Now, initialising..
50%



Finalisation...
50%

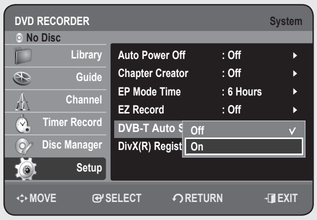
DVD-RW DVD-R
(V-mode)

This function allows you initialise and Finalise a disc automatically.

1. Press the ▲▼ buttons to select **EZ Record**, then press the **OK** or ► button.
2. Press the ▲▼ buttons to select **On**, then press the **OK** or ► button.
   Press the **EXIT** button to exit the menu.
3. Insert a disc.
   If the disc is new, It is initialised to V mode automatically.
   (DVD-RW only)
4. Press the **REC** button.
5. EZ Record function will automatically Finalise the disc under the following conditions.
   - When you press the **OPEN/CLOSE** button on your DVD Recorder after recording on at least 70% of the disc. The tray will open after the disc has been finalised.
   - The above feature is available only when a DVD-RW(V), DVD-R disc is inserted.

- If you insert a new DVD-RW disc, It is initialised to V mode automatically.
- If you select off, you must initialise (see page 61) and finalise the disc manually in the Disc Manager menu.(see page 87)
- The length of Recording is different according to recording mode. (see page 62)

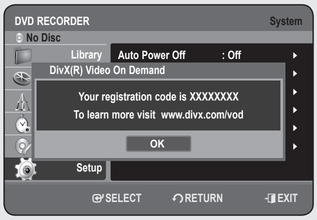
DVB-T Auto Subtitle


DVD RECORDER
System
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Auto Power Off : Off
Chapter Creator : Off
EP Mode Time : 6 Hours
EZ Record : Off
DVB-T Auto S
Off ✓
On
DivX(R) Regist
MOVE
SELECT
RETURN
EXIT

- **On** : The subtitle is shown automatically when receiving the DVB-T.
- **Off** : The function is cancelled.

- It is available when receiving the DVB-T that has a subtitle.

DivX(R) Registration

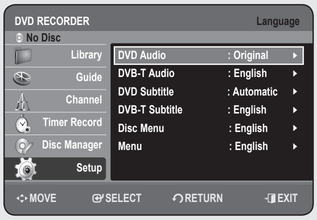

DVD RECORDER
System
No Disc
Library
Auto Power Off : Off
Setup
OK
SELECT
RETURN
EXIT

DivX(R) Video On Demand

Your registration code is XXXXXXXX
To learn more visit www.divx.com/vod

Please use the Registration code to register this DVD Recorder with the DivX(R) Video On Demand format. For more information, visit www.divx.com/vod

Setting up the Language Options


DVD RECORDER
Language
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
MOVE
SELECT
RETURN
EXIT

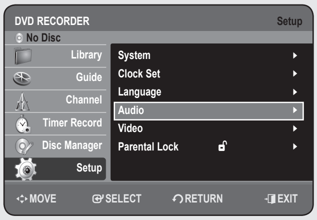
DVD Audio : Original
DVD-T Audio : English
DVD Subtitle : Automatic
DVB-T Subtitle : English
Disc Menu : English
Menu : English

If you set the language options, in advance, they will come up automatically every time you watch a movie.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ▶ button.
3. Press the ▲▼ buttons to select **Language**, then press the **OK** or ▶ button.
   Language setup menu will be displayed.
4. Press the ▲▼ buttons to select the desired language option, press the **OK** or ▶ button.
   - **DVD Audio** : For the disc audio language.
   - **DVB-T Audio** : For the current broadcastig Programme provides audio.
   - **DVD Subtitle** : For the disc subtitles.
   - **DVB-T Subtitle** : For the current broadcastig Programme provides subtitles.
   - **Disc Menu** : For the disc menu contained on the disc
   - **Menu** : For the on-screen menu of your DVD Recorder.
5. Press the ▲▼ buttons to select the desired language, then press the **OK** or ▶ button.

- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- The selected language will only appear if it is supported on the disc and DVB-T.
- During the playback, press the **SUBTITLE** button to select DVD subtitle. Because the default of DVD subtitle is off, press the ▲▼ button to select the desired subtitle.

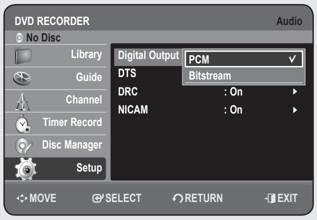
Setting up the Audio Options


DVD RECORDER
Setup
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
System
Clock Set
Language
Audio
Video
Parental Lock
MOVE
SELECT
RETURN
EXIT

You can connect the DVD Recorder to an external amp or Home theatre. Allows you to setup the Audio device and sound status depending on the audio system in use.
You can also set NICAM mode.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ▶ button.
3. Press the ▲▼ buttons to select **Audio**, then press the **OK** or ▶ button.
4. Press the ▲▼ buttons to select the desired audio option, then press the **OK** or ▶ button.
5. Press the ▲▼ buttons to select the desired item, then press the **OK** or ▶ button.

- Press the **RETURN** or ◀ button to return to the previous menu.
  Press the **EXIT** (⊡) button to exit the menu.


DVD RECORDER
Audio
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
MOVE
SELECT
RETURN
EXIT

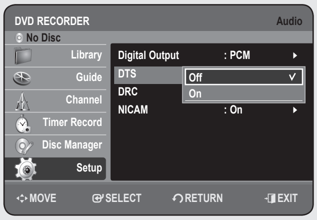
Digital Output PCM ✓
Bitstream
DTS
DRC : On
NICAM : On

Digital Output

- **PCM** : Select this when your equipment is not decode Dolby Digital (or MPEG-2) compatible.
- **Bitstream** : Outputs Dolby Digital (or MPEG-2) audio as bitstream. Select this when your AV receiver or AV amplifier has a Dolby Digital (or MPEG-2) Decoder.

■ Digital output setting is equally applied to both Dolby Digital and MPEG-2 audio. LPCM sound track is always outputted as PCM. It has no relation with Digital Output setting.

■ Be sure to select the correct Digital Output or you will hear no sound or a loud noise.


DVD RECORDER
Audio
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
MOVE
SELECT
RETURN
EXIT

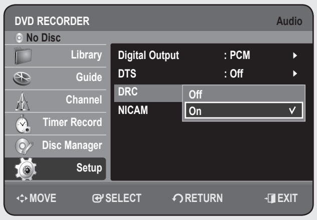
Digital Output : PCM
DTS Off ✓
On
DRC
NICAM : On

DTS

- **Off** : Doesn’t output DTS signal. Select this when your AV receiver (or AV amplifier) does not have DTS decoder.
- **On** : Outputs DTS Bitstream via digital output when you play DTS track. Select this only when your AV receiver (or AV amplifier) have DTS decoder.

■ When DTS soundtrack is played, sound does not output from AV Audio Output.

■ To output DTS signal, Bitstream must be selected.

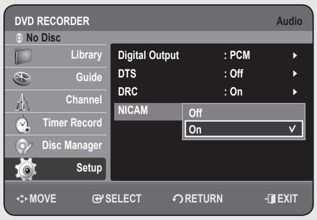

DVD RECORDER
Audio
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
MOVE
SELECT
RETURN
EXIT

Digital Output : PCM
DTS : Off
DRC Off
On ✓
NICAM

DRC

This is only active when a Dolby Digital signal is detected.

- **On** : When Movie soundtracks are played at low volume or from smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.
- **Off** : You can enjoy the movie with the standard Dynamic Range.


DVD RECORDER
Audio
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
MOVE
SELECT
RETURN
EXIT

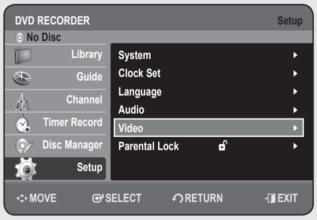
Digital Output : PCM
DTS : Off
DRC : On
NICAM Off
On ✓

NICAM

NICAM programmes are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM programmes are always accompanied by a standard mono sound broadcast and you can select the desired sound by setting NICAM on or off.

- **On** : NICAM mode
- **Off** : Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior reception conditions.

Setting up the Video Options

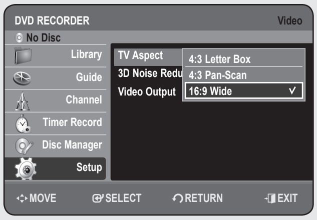

DVD RECORDER
Setup
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
System
Clock Set
Language
Audio
Video
Parental Lock
MOVE
SELECT
RETURN
EXIT

This function allows you to setup the video setting.
This function depends on disc type. It may not work for some disc types.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ▶ button.
3. Press the ▲▼ buttons to select **Video**, then press the **OK** or ▶ button. Video setup menu will be displayed.
4. Press the ▲▼ buttons to select the desired video option, then press the **OK** or ▶ button.
5. Press the ▲▼ buttons to select the desired item, then press the **OK** or ▶ button.

- Press the **RETURN** or ◀ button to return to the previous menu. Press the **EXIT** (⊡) button to exit the menu.

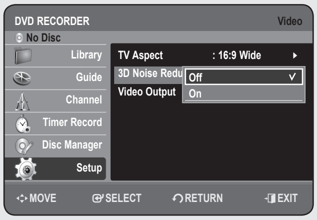
TV Aspect


DVD RECORDER
Video
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
TV Aspect
3D Noise Redu
Video Output
4:3 Letter Box
4:3 Pan-Scan
16:9 Wide ✓
MOVE
SELECT
RETURN
EXIT

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)

- **4:3 Letter Box** : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
- **4:3 Pan-Scan** : Select this for conventional size TV when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
- **16:9 Wide** : You can view the full 16:9 picture on your wide screen TV.

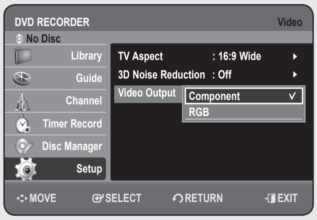
3D Noise Reduction (motion adaptive noise reduction)


TV Aspect : 16:9 Wide

DVD RECORDER
Video
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
3D Noise Redu
Video Output
Off ✓
On
MOVE
SELECT
RETURN
EXIT

- **Off** : Normal
- **On** : Provides a clear picture through noise reduction (for recording).

Video Output


TV Aspect : 16:9 Wide

3D Noise Reduction : Off

DVD RECORDER
Video
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Video Output
Component ✓
RGB
MOVE
SELECT
RETURN
EXIT

You can enjoy high quality image through RGB or Component video connections. RGB video output is available connecting scart jack(AV1) and component video output is available connecting component (Y, P_B, P_R) jack. Only one of these signals can be selected at one time.

- Component
- RGB

In Component mode, you can set video output to Progressive (P.SCAN) or Interlace, see page 34.

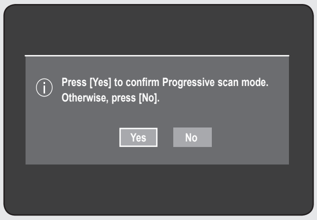
Available Video Output Jack

Setting mode Output jack		Component mode		RGB Mode
		P.SCAN off mode (Interlace mode)	**P.SCAN on mode**	
Component Output (Y, P_B, P_R)		O	O (TV in progressive mode)	×
AV1 Scart	R, G, B	×	×	O
	Composite	O	×	×
Composite Video out		O	×	O
S-Video out		O	×	O

Progressive scan

If your TV supports Progressive Scan, press the P.SCAN button on the front of the DVD Recorder.
To view 'Progressive scan mode', first connect the component cable. (See page 19)
Be sure the Component cables are connected properly.

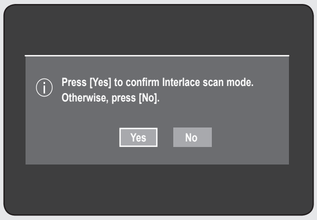
◆ Setting up the Progressive scan


Press [Yes] to confirm Progressive scan mode.
Otherwise, press [No].

1. With the unit in Stop mode, press the **P.SCAN** button on the front of the DVD Recorder.
   The message "Press [Yes] to confirm Progressive scan mode. Otherwise, press [No]." will appear.
2. Press the ◄► buttons to select **Yes**, and then press the **OK** button.
3. Set your TV to Progressive input (using the TV remote control.)

- If the **P.SCAN** button on the DVD Recorder's front panel is pressed during playback, the message "This function is possible only on stop mode" appears on the screen.
- Progressive setting is only available when the DVD Recorder is in stop mode.

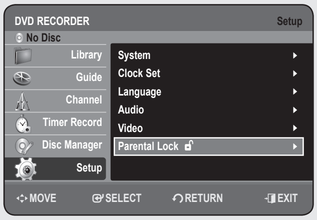
◆ Cancelling the Progressive scan


Press [Yes] to confirm Interlace scan mode.
Otherwise, press [No].

1. With the unit in Stop mode, press the **P.SCAN** button on the front of the DVD Recorder.
   The message "Press [Yes] to confirm Interlace scan mode. Otherwise, press [No]." will appear.
2. Press the ◄► buttons to select **Yes**, and then press the **OK** button.
3. Set your TV to Interlace input (using the TV remote control.)

- Do not press the **P.SCAN** button if you are using a TV that does not support Progressive mode as nothing will be displayed on the screen.
- If you press the **P.SCAN** button by mistake when your TV does not support Progressive mode, the mode will then need to be released. To release the Progressive mode, press the **P.SCAN** button on the front panel 3 times. The screen will recover after the **PSO** indicator on the front panel display turns off.

Setting up the Parental Lock


DVD RECORDER
Setup
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
System
Clock Set
Language
Audio
Video
Parental Lock
MOVE
SELECT
RETURN
EXIT

DVD-VIDEO

The Parental Lock function works in conjunction with DVDs and DVB-T that have been assigned a rating which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

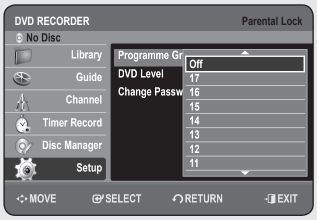
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Parental Lock**, then press the **OK** or ► button.
   When you operate your DVD Recorder for the first time, the "Create the Password" message will be displayed.
4. Enter the 4-digit password using the number buttons on the remote control.
   The "Confirm the password" message will be displayed. Enter your password again.

- Press the **RETURN** or ◄ button to return to the previous menu. Press the **EXIT** (⇥) button to exit the menu.

If you forgot your password

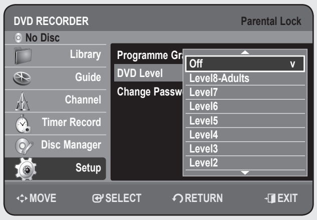
1. Remove the disc.
2. Press and hold the **PROG** (⌄ ⌃) button on the front panel for 5 seconds or more.

Setting the Programme Grade


DVD RECORDER
Parental Lock
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Programme Gr
DVD Level
Change Passw
Off
17
16
15
14
13
12
11
MOVE
SELECT
RETURN
EXIT

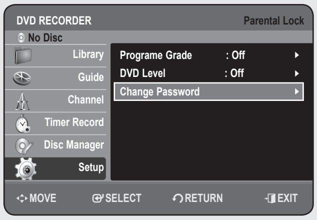
1. Press the ▲▼ buttons to select **Programme Grade**, then press the **OK** or ► button.
2. Press the ▲▼ buttons to select the programme grade you want, then press the **OK** or ► button.
   For example, if you select up to 15, DVB-T that contain 16, 17 will not display. A larger number indicates that the programme is intended for adult use only.

Setting the DVD Level


DVD RECORDER
Parental Lock
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Programme Gr
DVD Level
Change Passw
Off
Level8-Adults
Level7
Level6
Level5
Level4
Level3
Level2
MOVE
SELECT
RETURN
EXIT

1. Press the ▲▼ buttons to select **DVD Level**, then press the **OK** or ► button.
2. Press the ▲▼ buttons to select the **DVD Level** you want, then press the **OK** or ► button.
   For example, if you select up to 6, discs that contain 7, 8 will not play. A larger number indicates that the programme is intended for adult use only.

Changing the Password


DVD RECORDER
Parental Lock
No Disc
Library
Guide
Channel
Timer Record
Disc Manager
Setup

Programe Grade : Off
DVD Level : Off
Change Password

MOVE
SELECT
RETURN
EXIT

1. Press the ▲▼ buttons to select **Change Password**, then press the **OK** or ► button.
2. Enter the 4-digit password using the number buttons on the remote control. The “Confirm the password” message will be displayed.
3. Enter your password again using the number buttons on the remote control.

'EPG' is used as the same meaning with 'TNT'.

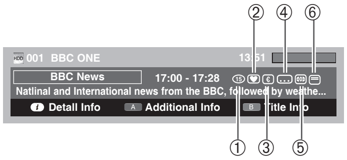
Basic Functions

Display Screen

After the television channels have been stored, you will see the following picture(banner) each time you switch channels.
You can use this function when you see DVB-T.

1. Press the *i* button once to display the channel and the channel name.

2. Select the channel by pressing the **NUMBER** buttons or **PROG** (⌃ / ⌄) buttons to move to **TV** channel.
You will also see this banner each time you change channels.


②
④
⑥
001 BBC ONE
13:51
BBC News
17:00 - 17:28
Natlinal and International news from the BBC, followed by weathe...
Detail Info
Additional Info
Title Info
①
③
⑤

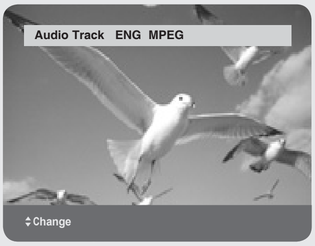
◆ Banner Elements

1. Displays the programme grade.
2. Displays the favorite channel.
3. Displays the paid channel.
4. Displays the subtitle.
5. Displays the number of audio.
6. Displays the teletext.

- Detailed programme information -

1. Press the i button twice while you are viewing a programme.
2. After the i button is pressed for the second time, detailed information for current programme can be displayed on another banner, if there is more information.

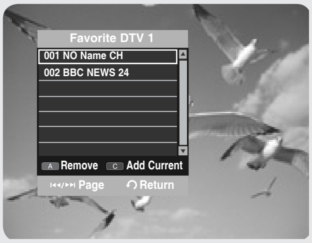
Select Audiotrack


Audio Track ENG MPEG
⇕Change

1. Press the **ALT** button to see the Audio track list.

2. Press the ▲▼ buttons to select desired Audio track, then press the **OK** button.

Setting the Favorite Channel


Favorite DTV 1
001 NO Name CH
002 BBC NEWS 24
A Remove
C Add Current
Page
Return

You can immediately register the present channel to the Digital Favorite Channel List.

1. Press the **FAV LIST** button while you are viewing a programme.

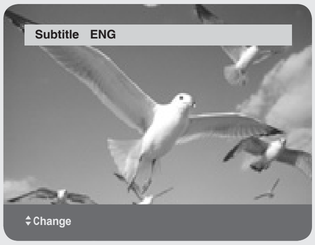
2. To add the current channel to the Digital Favorite channels, press the **YELLOW(C)** button.
To delete a favorite channel from the Digital Favorite channel list, press the **RED(A)** button.

– To watch the favorite channel –

Press the **FAV LIST** button and then select the channel.
Press the **OK** button to watch that channel.

- You can make up to 8 Digital favorite channel. (TV favorite list: 4, Radio favorite list:4)

Changing the Subtitle Language

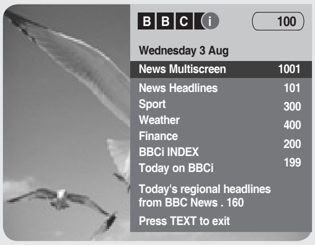

Subtitle ENG

When the current broadcasting programme provides subtitle, press the SUBTITLE button . If Subtitle is available on current programme, menu bar is displayed on the upper side.

1. Press the **SUBTITLE** button.

2. Press the ▲▼ buttons to select a desired subtitle, then press the **OK** button.

Using the digital text service


BBCi
100
Wednesday 3 Aug
News Multiscreen 1001
News Headlines 101
Sport 300
Weather 400
Finance 200
BBCi INDEX 199
Today on BBCi
Today's regional headlines from BBC News . 160
Press TEXT to exit

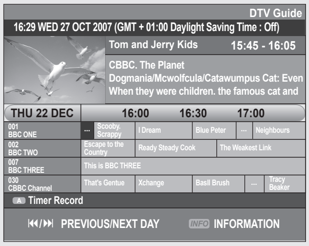
When the current broadcasting programme provides digital text service, you can use digital text service.

1. Press the **TEXT** button, the main menu of digital text will be displayed.

2. Press the ▲▼ or number button to select desired digital text, then press the **OK** button.

- Press the **EXIT** button to exit the main menu of digital text.
- Press the **RETURN** button to exit the digital text mode.

Guide

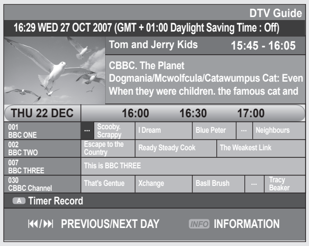

DTV Guide
16:29 WED 27 OCT 2007 (GMT + 01:00 Daylight Saving Time : Off)
Tom and Jerry Kids
15:45 - 16:05
CBBC. The Planet Dogmania/Mcwolfcula/Catawumpus Cat: Even When they were children. the famous cat and
THU 22 DEC
16:00
16:30
17:00
001 BBC ONE
Scooby. Scrappy
I Dream
Blue Peter
Neighbours
002 BBC TWO
Escape to the Country
Ready Steady Cook
The Weakest Link
007 BBC THREE
This is BBC THREE
030 CBBC Channel
That's Gentue
Xchange
Basil Brush
Tracy Beaker
A Timer Record
PREVIOUS/NEXT DAY
INFO INFORMATION

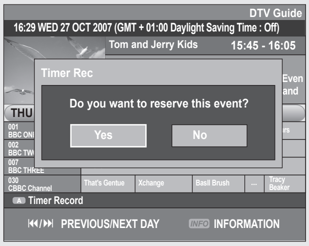
The electronic programme guide gives you a channel list for the channels.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Guide**, then press the **OK** or ► button.
   - Press the **GUIDE** button while you are viewing a programme. (DTV)
   - **RED(A) button (Timer Record)** : Setting the Timer Record.
   - **(►►I)button** : Go to next day
   - **(I◄◄)button** : Go to previous day
     → It displays programme from now to 8 days after.
   - **▲▼◄► button** : select the programme and station.
   - **INFO button (Information)** : View the detail information

- The contents of cell could be displayed with a delay according to the broadcasting.
- On entering Guide screen, currently selected channel's information will be displayed on the right side of PIP (Picture in Picture).
- If 'Daylight Saving Time' and 'GMT Time' settings are wrong, EPG Time will be incorrect.

Guide Timer Recording


DTV Guide
16:29 WED 27 OCT 2007 (GMT + 01:00 Daylight Saving Time : Off)
Tom and Jerry Kids
15:45 - 16:05
CBBC. The Planet Dogmania/Mcwolfcula/Catawumpus Cat: Even When they were children. the famous cat and
THU 22 DEC
16:00
16:30
17:00
001 BBC ONE
Scooby. Scrappy
I Dream
Blue Peter
Neighbours
002 BBC TWO
Escape to the Country
Ready Steady Cook
The Weakest Link
007 BBC THREE
This is BBC THREE
030 CBBC Channel
That's Gentue
Xchange
Basil Brush
Tracy Beaker
A Timer Record
PREVIOUS/NEXT DAY
INFO INFORMATION


DTV Guide
16:29 WED 27 OCT 2007 (GMT + 01:00 Daylight Saving Time : Off)
Tom and Jerry Kids
15:45 - 16:05
Timer Rec
Yes
No
That's Gentue
Xchange
Basil Brush
Tracy Beaker
A Timer Record
PREVIOUS/NEXT DAY
INFO INFORMATION

Do you want to reserve this event?

Make sure that clock must be set before operating this function. (see pages 24~25)

1. Press the ▲▼◄► buttons to select desired programme, then press **RED(A)** button.
2. The time of Guide is the time of the current channel enters.
3. You can check the setting in the scheduled List. (see pages 70~71)

- The title information is displayed in the Title List as for Guide REC.
- If Timer Rec is set, the icon is displayed in the set programme.
- If you press **RED(A)** button, timer recording will be cancelled.
- Up to 12 recording are possible including guide recording and general recording.

Playback

This section introduces basic functions of playback and playback by disc type.
Read the following information before playing a disc.

Region code (DVD-Video only)

Both the DVD Recorder and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this DVD Recorder is described on the rear panel of the DVD Recorder.

Logos of Discs that can be played

Dolby Digital	DTS	Digital Audio
Stereo	PAL broadcast system in U.K, France, Germany, etc.	
DivX	MP3	

Disc types that can be played

Disc Types	Disc Logo content	Recorded content	Disc Shape	Max. Playing Time
DVD-VIDEO	DVD VIDEO	AUDIO VIDEO	Single sided(12cm)	240 min.
			Double sided(12cm)	480 min.
			Single sided(8cm)	80 min.
			Double sided(8cm)	160 min.
AUDIO-CD	COMPACT disc DIGITAL AUDIO	AUDIO	Single sided(12cm)	74 min.
			Single sided(8cm)	20 min.
JPEG		JPEG Image	Single sided(12cm)	–
			Single sided(8cm)	–
MP3		MP3 Audio	Single sided(12cm)	–
			Single sided(8cm)	–
DivX	DivX	DivX Movie	Single sided(12cm)	–
			Single sided(8cm)	–
DVD-RAM	DVD RAM	AUDIO VIDEO	Single Layer(12cm) (4.7GB)	1 hr. (XP : Excellent Quality)
				2 hrs. (SP : Standard Quality)
				4 hrs. (LP : Long Playback)
				6 or 8 hrs. (EP : Extended)
			Dual Layer(12cm) (8.5GB)	2 hrs. (XP : Excellent Quality)
				4 hrs. (SP : Standard Quality)
				8 hrs. (LP : Long Playback)
				12 or 16 hrs. (EP : Extended)
DVD-RW	DVD RW	AUDIO VIDEO	12cm (4.7GB)	1 hr. (XP : Excellent Quality)
				2 hrs. (SP : Standard Quality)
				4 hrs. (LP : Long Playback)
				6 or 8 hrs. (EP : Extended)
DVD-R	DVD R	AUDIO VIDEO	Single Layer(12cm) (4.7GB)	1 hr. (XP : Excellent Quality)
				2 hrs. (SP : Standard Quality)
				4 hrs. (LP : Long Playback)
				6 or 8 hrs. (EP : Extended)
			Dual Layer(12cm) (8.5GB)	1 hr. 50min (XP : Excellent Quality)
				3 hrs. 40min (SP : Standard Quality)
				7 hrs. 20min (LP : Long Playback)
				11 or 14 hrs. 40min (EP : Extended)
DVD+RW	RW DVD+ReWritable	AUDIO VIDEO	12cm (4.7GB)	–
DVD+R	RW DVD+R	AUDIO VIDEO	Single Layer(12cm) (4.7GB)	–
	RW DVD+R DL		Dual Layer(12cm) (8.5GB)	–
CD-R/-RW/ DVD-RAM/ -RW/-R		JPEG MP3 DivX	–	–

Discs that cannot be played

- DVD-Video with a region number other than "2" or "ALL"
- 3.9 GB DVD-R Disc for Authoring.
- DVD-RAM/-RW(VR mode) not recorded following the Video Recording Standard
- A DVD±R/DVD-RW(V) disc which has been recorded and not finalised in a different manufacturer's recorder.
- DVD-ROM/PD/MV-Disc, etc
- VCD/SVCD/CVD/CD-ROM/CDV/CD-G/CD-I
- BD, HD-DVD

- ■ This DVD Recorder can only operate with discs that are compatible with DVD-RAM Standard Version 2.0.
- ■ Playback and/or recording may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the box. Please refer to this if necessary.
- ■ Do not allow the disc to become dirty or scratched, finger prints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.
- ■ DVD-RAM/±RW/±R discs may not be able to play on some DVD players, depending on the player, disc and the condition of the recording.
- ■ Discs with NTSC programmes recorded on them can be played but cannot be recorded using this product.

Playing a Disc

1. Press the **OPEN/CLOSE** button.
2. Place a disc gently into the tray with the disc's label facing up.
3. Press the **OPEN/CLOSE** button to close the disc tray.
   - The DVD Recorder does not play discs automatically after being powered on initially.
   - When the DVD Recorder is powered on and a disc is in the tray, the unit will be activated and wait in stop status.
   - Press the **PLAY**(⏯) button to start playback.
4. Press the **STOP**(■) button to stop playback.

- ■ When you stop playing back a disc, the DVD Recorder remembers where you stopped, so when you press **PLAY**(⏯) button again, it will pick up where you left off. (Unless the disc is removed or the DVD Recorder is unplugged, or if you press the **STOP**(■) button twice.)

- ■ Do not move your DVD Recorder while playing, as this may cause damage to the disc.
- ■ Make sure to press the **OPEN/CLOSE** button to open or close the disc tray.
- ■ Do not push the disc tray while it is being opened or closed, as this may cause a product malfunction.

- Do not place foreign materials on or in the disc tray.
- Some functions may perform differently or be disabled depending on the disc type.
  If this occurs, refer to the instructions written on the disc case.
- Be especially careful that children's fingers are not caught between the disc tray and the tray chassis when it closes.
- You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the DVD Recorder.

Using the Disc Menu & Title Menu

Some type of discs contain a dedicated menu system that allows you to select special functions for title, chapter, audio track, subtitle, film preview, information on characters, etc.

For DVD-VIDEO Disc

DVD-VIDEO

- **Disc Menu** : Press the **DISC MENU** button to enter the disc menu of the disc.
  - Move to the setup menu related to playback operation.
  - You can select audio language and subtitle etc. provided by the disc.
- **Title Menu** : Press the **TITLE MENU** button to move to the title menu of the disc.
  - Some discs may not support the title menu functionality.

For DVD-RAM/±RW/±R Disc

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

- **Title List**
  Press the **TITLE LIST** button. Title List is a list of previously recorded programmes. If a title is deleted, that title cannot be played again.
- **Play List (DVD-RAM/-RW(VR))**
  Press the **PLAYLIST** button. This refers to a list of user-selected titles. When one playlist is played, only the scene selected by the user will play and then stop. Since only the information necessary for playing a desired scene is included in a playlist, even if that playlist is deleted, the original recording will not be deleted. (only VR mode)

Using the playback related buttons

Searching through a Chapter or Track

DVD-VIDEO DVD-RAM DVD-RW DVD-R CD DVD+RW DVD+R

During play, press the **SEARCH** (⏪ ⏩) buttons on the remote control.

DVD-VIDEO/DVD-RAM/ ±RW/±R	▶▶ X 2 → ▶▶ X 4 → ▶▶ X 8 → ▶▶ X 16 → ▶▶ X 32 → ▶▶ X 128
DivX	▶▶ X 2 → ▶▶ X 4 → ▶▶ X 8
AUDIO CD (CD-DA)	▶▶ X 2 → ▶▶ X 4 → ▶▶ X 8

- You can scan the programme in reverse.
- When you press and hold the **SEARCH** (⏪ ⏩) buttons, playback is done at the default speed of X 4.
  If you release the **SEARCH** (⏪ ⏩) buttons , playback is performed at a normal speed.
- To return to normal speed playback, press the **PLAY** (⏯) button.

- ■ No sound is heard during Scan(Search) mode, except with CDs (CD-DA).
  (You can hear sound during forward search(X 2) in disc.)
- ■ The speed marked in this function may be different from the actual playback speed.

Skipping Chapters, Titles or Markers

DVD-RAM DVD-RW DVD-R CD DVD+RW DVD+R

During play, press the **SKIP** (⏮ ⏭) buttons on the remote control.

- **If you press the SKIP (⏮) button,**
  it moves to the beginning of the chapter or Title or marker
  Pressing the button once again within 3 seconds returns to the beginning of the previous chapter or Title or marker
- **If you press the SKIP (⏭) button,**
  it moves to the next chapter or track or marker

Slow Motion Play

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R DivX

In pause mode, press the **SEARCH** (⏪ ⏩) buttons on the remote control.

- **If you press the SEARCH (⏩) button,**
  I▶ 1/2 → I▶ 1/4 → I▶ 1/8
- **If you press the SEARCH (⏪) button,**
  ◀I 1/2 → ◀I 1/4 → ◀I 1/8
- To return to normal speed playback, press the **PLAY** (⏯) button.

Press and hold the **SEARCH** (⏪ ⏩) buttons during pause, the disc will play slowly at 1/4 speed. If the button is released, the pause operation will resume.

- ■ The speed marked in this function may be different from the actual playback speed.
- ■ Slow motion operates only in the forward direction on DivX discs.

Step Motion Play

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R DivX

Press the **SKIP**(⏮, ⏭) buttons on the remote control in the pause mode.

- Each time the button is pressed, a new frame will appear.
  When the **SKIP**(⏮) button is pressed, the previous frame will be activated.
  When the **SKIP**(⏭) button is pressed, the next frame will be activated.
- To return to normal speed playback, press the **PLAY** (⏯) button.

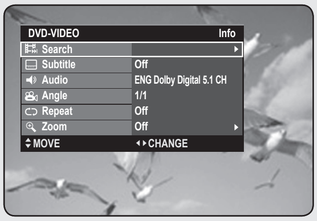
- ■ Step motion operates only in the forward direction on DivX discs.

Using the INFO button

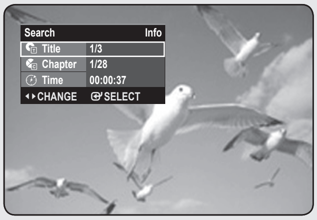
The INFO function allows you to easily search for a desired scene by accessing title, chapter, time.
You can also change the subtitle and audio settings and set some features including Angle, Repeat, Zoom.

Moving to a scene directly using the INFO

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R DivX



DVD-VIDEO	Info
Search	▸
Subtitle	Off
Audio	ENG Dolby Digital 5.1 CH
Angle	1/1
Repeat	Off
Zoom	Off ▸
⇕ MOVE	◂▸ CHANGE



Search	Info
Title	1/3
Chapter	1/28
Time	00:00:37
◂▸ CHANGE	SELECT

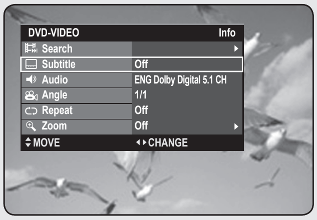
If you want to move to a certain title, chapter or time, use this function.

1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select **Search**, then press the **OK** button or ► button.
3. Press the ▲▼ buttons to select **Title, Chapter** or **Time**.
4. Press the ◄► buttons or number buttons to select the desired scene, then press the **OK** button.
   In case of searching a time, enter the time in the sequence of hours, minutes, and seconds using the number buttons.
   Then press the **OK** button.

- This may not work for some discs.
  When an audio CD(CD-DA) or an MP3/JPEG disc is inserted, depending on the disc type, the information display may not appear.
- The Time Search function does not operate in some discs.
- To make the screen disappear, press the **EXIT** button.

Selecting the Subtitle Language

DVD-VIDEO DivX



DVD-VIDEO	Info
Search	▸
Subtitle	Off
Audio	ENG Dolby Digital 5.1 CH
Angle	1/1
Repeat	Off
Zoom	Off ▸
⇕ MOVE	◂▸ CHANGE

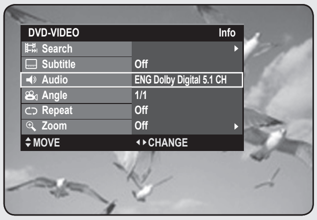
Selects one of the subtitle language recorded on the disc.
You can also operate this function by pressing the SUBTITLE button on the remote control.

1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select **Subtitle**.
3. Press the ◄► buttons to select the desired subtitle language.

- The subtitle display may be different depending on the disc type.
- Some discs allow you to select the language for the disc menu only.

Selecting the Soundtracks & Audio Channels

DVD-VIDEO DVD-RAM DVD-RW DVD+RW DVD+R DivX



DVD-VIDEO Info

Search	▸
Subtitle	Off
Audio	ENG Dolby Digital 5.1 CH
Angle	1/1
Repeat	Off
Zoom	Off ▸
⇕ MOVE	◂▸ CHANGE

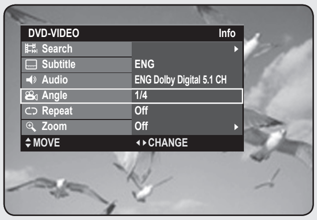
Selects one of the soundtracks recorded on the disc. Also selects the audio channels from recorded TV programmes.
You can also operate this function by pressing the AUDIO button on the remote control.

1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select **Audio**.
3. Press the ◄► buttons to select the desired sound tracks or audio channel.

- Soundtracks or Audio channel may be different because they are disc-specific.
- Some discs allow you to select the audio language for the disc menu only.

Changing the Camera Angle

DVD-VIDEO



DVD-VIDEO Info

Search	▸
Subtitle	ENG
Audio	ENG Dolby Digital 5.1 CH
Angle	1/4
Repeat	Off
Zoom	Off ▸
⇕ MOVE	◂▸ CHANGE

When a DVD VIDEO contains multiple angles of a particular scene, you can select the Angle function.

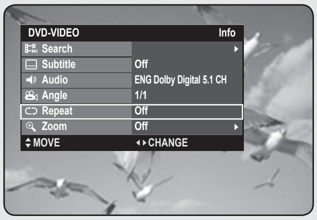
1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select **Angle**.
3. Press the ◄► buttons to select the desired angle.

- This function is disc-dependent, and may not work on all DVDs.
- This function does not work when a DVD has not been recorded with a multi-camera angle system.
- Displays the current angle, total angle number.

Repeat Play

Playing Repeatedly (Repeat Playback)

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R DivX



DVD-VIDEO Info

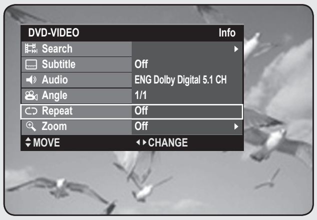
Search	
Subtitle	Off
Audio	ENG Dolby Digital 5.1 CH
Angle	1/1
Repeat	Off
Zoom	Off

1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select the **Repeat**.
3. Press the ◄► buttons to select **Off, A-B** or **Title** or **Chapter** you want to play repeatedly, then press the **OK** button.

- DVD-RAM/-RW(VR mode), unfinalised DVD±R and unfinalised DVD-RW (V mode) discs will do not repeat a chapter.
- You can also activate Normal Playback by pressing the **EXIT**( ) button.

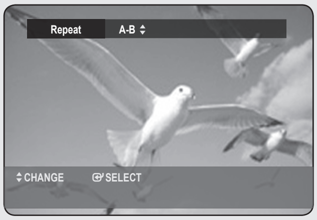
Repeat A-B

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R



DVD-VIDEO Info

Search	
Subtitle	Off
Audio	ENG Dolby Digital 5.1 CH
Angle	1/1
Repeat	Off
Zoom	Off



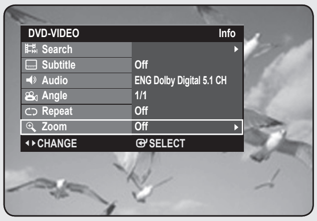
Repeat A-B

1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select **Repeat**.
3. Press the ◄► buttons to select **Repeat A-B**, then press the **OK** button.
4. Press the **OK** button at the point where you want the repeat play to start (A) and press it again at the point where you want the repeat play to stop (B). Repeat playback of the A-B section starts.

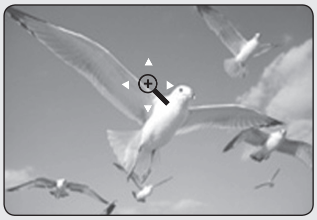
- If you set point (B) before five seconds of playback has lapsed, the prohibition mark (⊘) will appear.
- You can also activate Normal Playback by pressing the **EXIT**( ) button.
- Audio CDs(CD-DA), MP3 discs and DivX discs do not support the Repeat A-B function.

Zooming-In

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R



DVD-VIDEO Info
Search ▸
Subtitle Off
Audio ENG Dolby Digital 5.1 CH
Angle 1/1
Repeat Off
Zoom Off ▸
◂▸ CHANGE ⏎ SELECT

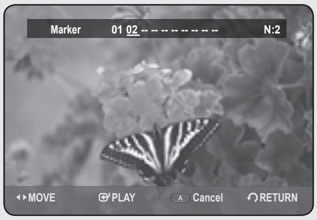


1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select **Zoom**, then press the **OK** or ► button. (🔍) will be displayed.
3. Press ▲▼◄► buttons to move to the area you want to enlarge.
4. Press the **OK** button.
   The screen will be enlarged to twice the normal size. The screen size will be enlarged to four times the normal size.

DVD-VIDEO/ DVD-RAM/±RW/±R	normal size ➞ X2 ➞ X4 ➞ X2 ➞ normal size

- When the recording is done in EP mode, the zoom function is not supported except when the recording has been in DVD-VIDEO and finalised DVD-R/-RW(V).

Using Markers



DVD-RAM DVD-RW
(VR mode)

Set marks at scenes you want to see again so that you can start playback from the marked position.

Setting Markers

1. Press the **MARKER** button during playback.
2. Press the **OK** button when the desired scene appears.
   - The number 01 is displayed and the scene is memorised.
3. Press the ► buttons to move to the next position.
4. Press the **OK** button again when the desired scene appears.
   - The number 02 is displayed and the scene is memorised.
   - DVD-RAM or DVD-RW (VR Mode) discs have the Marker function instead of the Bookmark function. Since the scenes may be displayed as many different pages, numbering is necessary.
     If a disc in use is encoded with Disc Protection, Markers cannot be set or deleted, only playback is available.

Playing back a marker

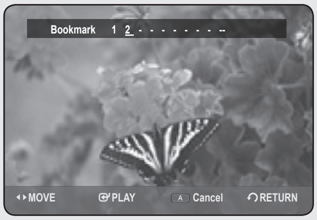
1. Press the **MARKER** button during playback.
2. Press the ◄► buttons to select a marked scene.
3. Press the **OK** or **PLAY** (⏯) button to start playing from the selected scene.
   - If you press the **SKIP** (⏮) button, it moves to the beginning of the marker. Pressing the button once again within 3 seconds returns to the beginning of the previous marker.
   - If you press the **SKIP** (⏭) button, it moves to the next marker.

Clearing a marker

1. Press the **MARKER** button during playback.
2. Press the ◄► buttons to select a marked scene.
3. Press the **RED(A)** button to delete the selected mark.
   - When a marker is cleared while DVD-RAM/-RW (VR mode) is playing, marker numbers will change. For example, if the 7th marker is cleared after ten markers are registered, the marker numbers after the eighth will automatically move ahead by one and the 8th marker becomes the 7th.

Using the Bookmarks

DVD-VIDEO DVD-RW DVD-R DVD+RW DVD+R
(V mode)



Setting Bookmarks

1. Press the **MARKER** button during playback.
2. Press the **OK** button when the desired scene appears.
   - The number **1** is displayed and the scene is memorised.
3. Press the ► buttons to move to the next position.
4. Press the **OK** button again when the desired scene appears. The number **2** is displayed and the scene is memorised.
   - Repeat above to bookmark other positions.
   - You can bookmark up to 10 scenes.

- When the disc tray is opened and then closed, bookmarks will disappear.

Playing back a bookmark

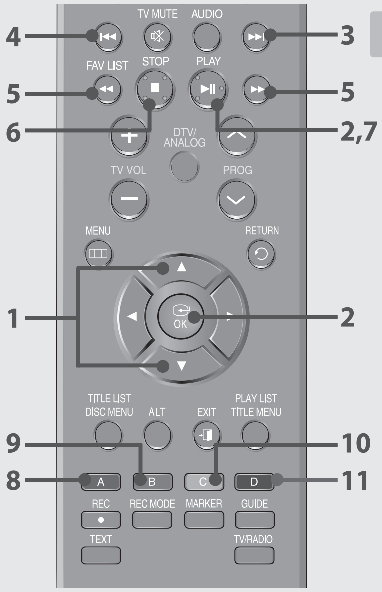
1. Press the **MARKER** button during playback.
2. Press the ◄► buttons to select a bookmarked scene.
3. Press the **OK** or **PLAY**(⏯) button to start playing from the selected scene.

Clearing a bookmark

1. Press the **MARKER** button during playback.
2. Press the ◄► buttons to select a bookmarked scene.
3. Press the **RED(A)** button to delete the selected bookmark.

Playing an Audio CD/MP3

Buttons on the Remote Control used for Audio CD(CD-DA)/MP3 playback

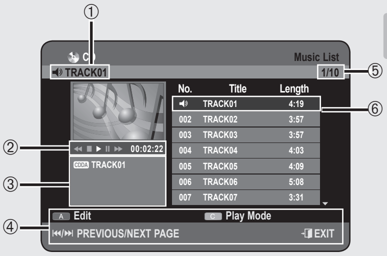

TV MUTE
AUDIO
FAV LIST
STOP
PLAY
DTV/ANALOG
TV VOL
PROG
MENU
RETURN
OK
TITLE LIST DISC MENU
ALT
EXIT
PLAY LIST TITLE MENU
A
B
C
D
REC
REC MODE
MARKER
GUIDE
TEXT
TV/RADIO
4
5
6
1
9
8
3
5
2,7
2
10
11

1. ▲▼ : Selects a track (song).
2. **OK button, Play (⏯) button**: Plays the selected track (song).
3. **SKIP (⏭) button** : Moves to the next page.
4. **SKIP (⏮) button** : Moves to the previous page.
5. **Press the SEARCH (⏪ ⏩) buttons** : Fast Play (X 2, X 4, X 8) (Audio CD only)
6. **STOP (■) button** : Stops a track(song).
7. **PLAY (⏯) button** : Plays a track(song) or pauses playback.
8. **RED(A) button** : Creates a playlist or go to playlist.
9. **GREEN(B) button** : Selects the sort order. (MP3 disc only)
10. **YELLOW(C) button** : Selects the play mode. (REPEAT)
11. **BLUE(D) button** : Selects a contents. (MP3 disc only)

Playing an Audio CD(CD-DA)

1. Insert an audio CD (CD-DA) into the disc tray.
   - The audio CD menu appears and the tracks (songs) are played automatically.
2. Press the ▲▼ buttons to select the track (song) you want to hear, and then press the **OK** button.

◆ Audio CD(CD-DA) Screen Elements

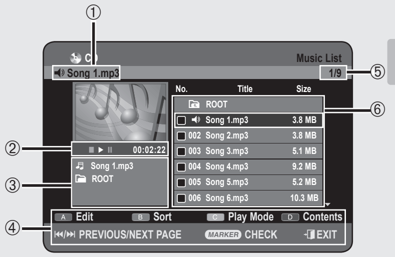

①
②
③
④
⑤
⑥
CD
Music List
TRACK01
1/10
00:02:22
CDDA TRACK01
A Edit
C Play Mode
⏮/⏭ PREVIOUS/NEXT PAGE
EXIT

No.	Title	Length
🔊	TRACK01	4:19
002	TRACK02	3:57
003	TRACK03	3:57
004	TRACK04	4:03
005	TRACK05	4:09
006	TRACK06	5:08
007	TRACK07	3:31

1. **Current track (song)** : Displays the number of the track currently being played.
2. Displays available buttons and a playback time corresponding to a portion that is currently played.
3. Displays the current file type and file name.
4. Display available buttons.
5. Displays the current play index, total track number.
6. Displays the track list (song list).

Playing an MP3 Disc

1. Insert an MP3 disc into the disc tray.
   - The menu is displayed
2. Press the ▲▼ buttons to select **Library**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Music**, then press the **OK** or ► button.
4. Press the ▲▼ buttons to select the track you want to hear, and then press the **OK** button.

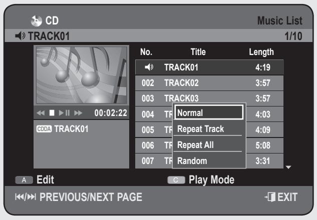

①
②
③
④
⑤
⑥
CD
Music List
Song 1.mp3
1/9
00:02:22
Song 1.mp3
ROOT
A Edit
B Sort
C Play Mode
D Contents
PREVIOUS/NEXT PAGE
MARKER CHECK
EXIT

No.	Title	Size
	ROOT	
☐	Song 1.mp3	3.8 MB
☐ 002	Song 2.mp3	3.8 MB
☐ 003	Song 3.mp3	5.1 MB
☐ 004	Song 4.mp3	9.2 MB
☐ 005	Song 5.mp3	5.2 MB
☐ 006	Song 6.mp3	10.3 MB

◆ MP3 Screen Elements

1. **Current track (song)** : Displays the name of the track being played.
2. Displays available buttons and a playback time corresponding to a portion that is currently played.
3. Displays the current file type, file name and folder name.
4. Displays available buttons.
5. Displays the current play index, total track number.
6. Displays the track list (song list).

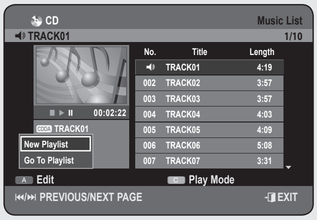
Repeat CD (CD-DA) & MP3


CD
Music List
TRACK01
1/10
00:02:22
CDDA TRACK01
Normal
Repeat Track
Repeat All
Random
A Edit
C Play Mode
PREVIOUS/NEXT PAGE
EXIT

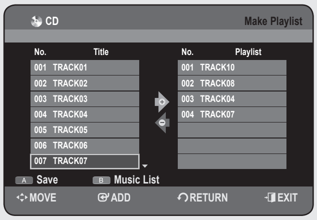
No.	Title	Length
	TRACK01	4:19
002	TRACK02	3:57
003	TRACK03	3:57
004	TR	4:03
005	TR	4:09
006	TR	5:08
007	TR	3:31

1. Press the **YELLOW(C)** button during the Music List playback.
2. Press the ▲▼ buttons to select desired play mode, then press the **OK** or ► button.
   - **Normal (CD (CD-DA)/MP3) :** Tracks on a disc are played in the order in which they were recorded on the disc.
   - **Repeat Track (CD (CD-DA)/MP3)**
   - **Repeat Folder (MP3)**
   - **Repeat All (CD (CD-DA)/MP3)**
   - **Random (CD (CD-DA)/MP3)** : The random option plays a disc's tracks in random order.

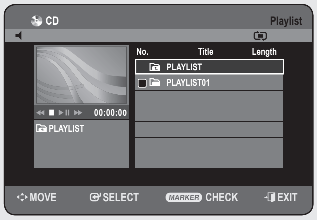
New Playlist


CD
Music List
TRACK01
1/10
00:02:22
TRACK01
New Playlist
Go To Playlist
A Edit
C Play Mode
PREVIOUS/NEXT PAGE
EXIT

No.	Title	Length
	TRACK01	4:19
002	TRACK02	3:57
003	TRACK03	3:57
004	TRACK04	4:03
005	TRACK05	4:09
006	TRACK06	5:08
007	TRACK07	3:31


CD
Make Playlist
A Save
B Music List
MOVE
ADD
RETURN
EXIT

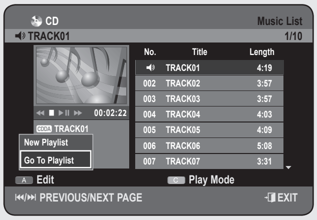
No.	Title	No.	Playlist
001	TRACK01	001	TRACK10
002	TRACK02	002	TRACK08
003	TRACK03	003	TRACK04
004	TRACK04	004	TRACK07
005	TRACK05		
006	TRACK06		
007	TRACK07		


CD
Playlist
No.
Title
Length
PLAYLIST
PLAYLIST01
00:00:00
PLAYLIST
MOVE
SELECT
MARKER CHECK
EXIT

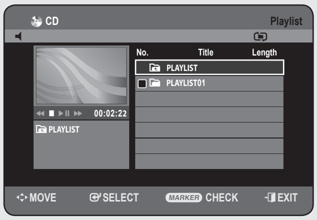
You can register a maximum 30 tracks in the playlist.

1. Press the **RED(A)** button during the Music List playback.
2. Press the ▲▼ buttons to select **New Playlist**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select tracks in the order in which you want them to play, then press the **OK** button.
   - If you playlisted a wrong track, press the ►▲▼ buttons to select the wrong track, then press the **OK** button.
4. To store the Playlist, press the **RED(A)** button.
   A new Playlist will be created.

Go To Playlist

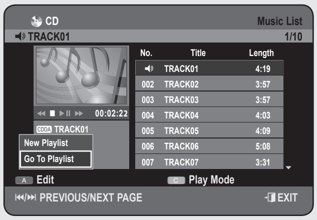

CD
Music List
TRACK01
1/10
00:02:22
TRACK01
New Playlist
Go To Playlist
A Edit
C Play Mode
PREVIOUS/NEXT PAGE
EXIT

No.	Title	Length
	TRACK01	4:19
002	TRACK02	3:57
003	TRACK03	3:57
004	TRACK04	4:03
005	TRACK05	4:09
006	TRACK06	5:08
007	TRACK07	3:31

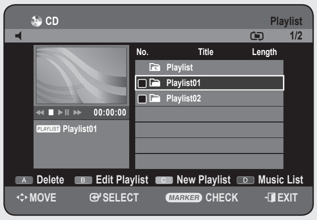

CD
Playlist
No.
Title
Length
PLAYLIST
PLAYLIST01
00:02:22
PLAYLIST
MOVE
SELECT
MARKER CHECK
EXIT

1. Press the **RED(A)** button during the Music List playback.
2. Press the ▲▼ buttons to select **Go To Playlist**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select the desired playlist folder, then press the **OK** button.
   The selected tracks are played automatically.

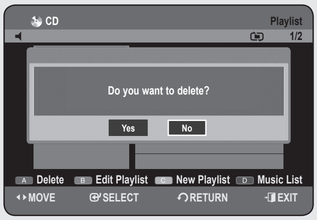
Delete the Playlist


CD
Music List
TRACK01
1/10
00:02:22
CDDA TRACK01
New Playlist
Go To Playlist
A Edit
C Play Mode
PREVIOUS/NEXT PAGE
EXIT

No.	Title	Length
	TRACK01	4:19
002	TRACK02	3:57
003	TRACK03	3:57
004	TRACK04	4:03
005	TRACK05	4:09
006	TRACK06	5:08
007	TRACK07	3:31


CD
Playlist
1/2
00:00:00
PLAYLIST Playlist01
A Delete
B Edit Playlist
C New Playlist
D Music List
MOVE
SELECT
MARKER CHECK
EXIT

No.	Title	Length
	Playlist	
☐	Playlist01	
☐	Playlist02	

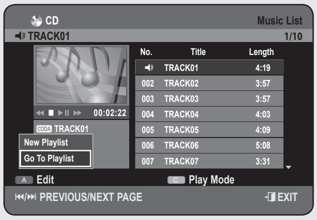

CD
Playlist
1/2
A Delete
B Edit Playlist
C New Playlist
D Music List
MOVE
SELECT
RETURN
EXIT

Do you want to delete?

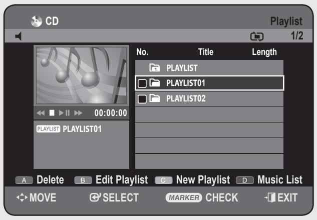
Yes No

1. Press the **RED(A)** button during the Music List playback.
2. Press the ▲▼ buttons to select **Go To Playlist**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select the Playlist you want to delete.
4. Press the **RED(A)** button.
5. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   The selected Playlist is deleted.

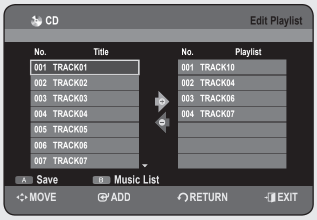
Go To Edit Playlist


CD
Music List
TRACK01
1/10
00:02:22
CDDA TRACK01
New Playlist
Go To Playlist
A Edit
C Play Mode
PREVIOUS/NEXT PAGE
EXIT

No.	Title	Length
	TRACK01	4:19
002	TRACK02	3:57
003	TRACK03	3:57
004	TRACK04	4:03
005	TRACK05	4:09
006	TRACK06	5:08
007	TRACK07	3:31


CD
Playlist
1/2
00:00:00
PLAYLIST PLAYLIST01
A Delete
B Edit Playlist
C New Playlist
D Music List
MOVE
SELECT
MARKER CHECK
EXIT

No.	Title	Length
	PLAYLIST	
☐	PLAYLIST01	
☐	PLAYLIST02	

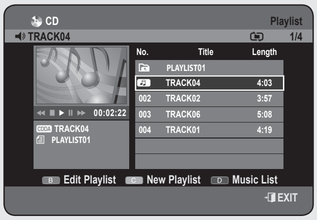

CD
Edit Playlist
A Save
B Music List
MOVE
ADD
RETURN
EXIT

No.	Title
001	TRACK01
002	TRACK02
003	TRACK03
004	TRACK04
005	TRACK05
006	TRACK06
007	TRACK07

No.	Playlist
001	TRACK10
002	TRACK04
003	TRACK06
004	TRACK07

1. Press the **RED(A)** button during the Music List playback.
2. Press the ▲▼ buttons to select **Go To Playlist**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select the Playlist you want to edit.
4. Press the **GREEN(B)** button in playlist mode.
5. Press the ▲▼ buttons to select tracks in the order in which you want them to play, then press the **OK** button.
   - If you playlisted a wrong track, press the ►▲▼ buttons to select the wrong track, then press the **OK** button.
6. To store the Playlist, press the **RED(A)** button.
   Playlist will be edited.

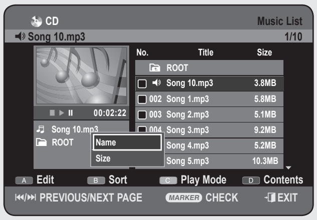
Go To Music List


CD
Playlist
TRACK04
1/4
00:02:22
CDDA TRACK04
PLAYLIST01
B Edit Playlist
C New Playlist
D Music List
EXIT

No.	Title	Length
	PLAYLIST01	
	TRACK04	4:03
002	TRACK02	3:57
003	TRACK06	5:08
004	TRACK01	4:19

1. Press the **BLUE(D)** button during the Playlist playback.
   The Music List will be displayed.

Using the Sort

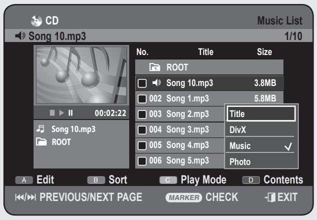

CD
Music List
Song 10.mp3
1/10
No.
Title
Size
ROOT
Song 10.mp3
3.8MB
002 Song 1.mp3
5.8MB
003 Song 2.mp3
5.1MB
004 Song 3.mp3
9.2MB
Song 4.mp3
5.2MB
Song 5.mp3
10.3MB
00:02:22
Song 10.mp3
ROOT
Name
Size
A Edit
B Sort
C Play Mode
D Contents
PREVIOUS/NEXT PAGE
MARKER CHECK
EXIT

When you need to change the Sort order of Music List, you can change it simply.

1. While the list menu is displayed, press the **GREEN(B)** button to select Sort.
2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.
   - **Name** : In alphabetical order
   - **Size** : In order of audio file size.

- Audio CD(CD-DA) is not available.
- You can sort by Name, Length. Sorted list will be resorted in copied order upon reentering Music List.

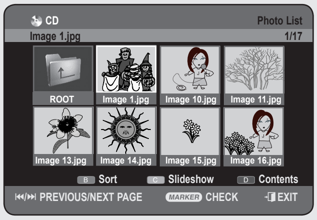
Select Contents


CD
Music List
Song 10.mp3
1/10
No.
Title
Size
ROOT
Song 10.mp3
3.8MB
002 Song 1.mp3
5.8MB
003 Song 2.mp3
004 Song 3.mp3
005 Song 4.mp3
006 Song 5.mp3
Title
DivX
Music ✓
Photo
00:02:22
Song 10.mp3
ROOT
A Edit
B Sort
C Play Mode
D Contents
PREVIOUS/NEXT PAGE
MARKER CHECK
EXIT

1. Press the **BLUE(D)** button to select **Contents**.
2. Press the ▲▼ buttons to select the contents you want to move, then Press the **OK** or ► button.

- This function is possible only when the disc contains the selected contents.
- Audio CD(CD-DA) is not available.

Viewing a Picture


CD
Photo List
Image 1.jpg
1/17
ROOT
Image 1.jpg
Image 10.jpg
Image 11.jpg
Image 13.jpg
Image 14.jpg
Image 15.jpg
Image 16.jpg
B Sort
C Slideshow
D Contents
PREVIOUS/NEXT PAGE
MARKER CHECK
EXIT

JPEG

1. Insert a JPEG disc into the disc tray.
   - The menu is displayed
2. Press the ▲▼ buttons to select **Library**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Photo**, then press the **OK** or ► button.
   - To see the next 8 pictures, press the **SKIP** (⏭) button.
   - To see the previous 8 pictures, press the **SKIP** (⏮) button.
4. Press the ▲▼◄► buttons to select a desired picture, then press the **OK** button.

Slide Show

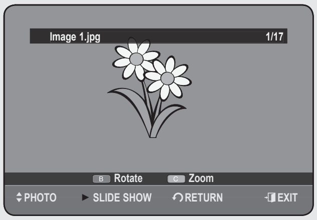


Image 1.jpg
1/17
B Rotate
C Zoom
PHOTO
SLIDE SHOW
RETURN
EXIT

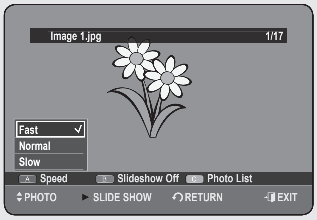


Image 1.jpg
1/17
Fast ✓
Normal
Slow
A Speed
B Slideshow Off
C Photo List
PHOTO
SLIDE SHOW
RETURN
EXIT

5. Press the **PLAY** (⏯)button.
   - Once in the Photo List, you can also operate slideshow in by pressing the **YELLOW(C)** button.
6. Press the **RED(A**) button to select Speed.
7. Press the ▲▼ buttons to select the slideshow speed, then press the **OK** or ► button.
   The slideshow starts and plays at the selected speed.
   - You can go to **Photo List** by pressing **YELLOW(C)** button.

◆ To stop the Slide Show

Press the **GREEN(B), STOP**(■) or **RETURN** button.

Rotate

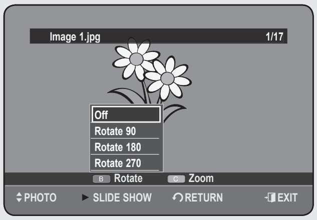
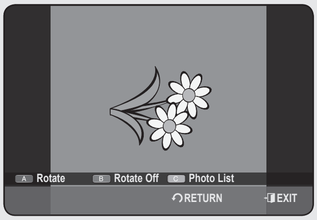


Image 1.jpg
1/17
Off
Rotate 90
Rotate 180
Rotate 270
B Rotate
C Zoom
PHOTO
SLIDE SHOW
RETURN
EXIT


A Rotate
B Rotate Off
C Photo List
RETURN
EXIT

To setup, follow steps 1 to 4 .

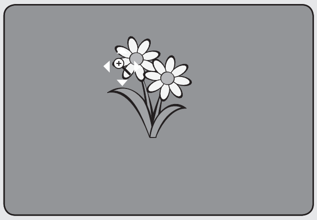
5-1. Press the **GREEN(B)** button to select Rotate.

6. Press the ▲▼ buttons to select the rotate angle, then press the **OK** or ► button.
   - Once you select a rotate angle, you can change it by pressing the **RED(A)** button.
   - You can go to **Photo List** by pressing **YELLOW(C)** button.

◆ To stop the Rotate

Press the **GREEN(B), STOP**(■) or **RETURN** button.

Zoom



To setup, follow steps 1 to 4 in page 56.

5-1. Press the **YELLOW(C)** button to select Zoom.

6. Each time the **OK** button is pressed, the picture is enlarged up to 4x (four times the normal size).

X2 → X4 → X2 → Normal

- You can go to **Photo List** by pressing **YELLOW(C)** button.

◆ To stop the Zoom

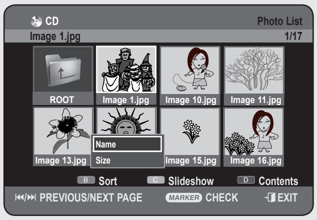
Press the **GREEN(B)**, **STOP**(■) or **RETURN** button.

Go To Photo List

To setup, follow steps 1 to 4 in page 56.

5-1. Press the **RETURN** button to go to **Photo List**.

Using the Sort

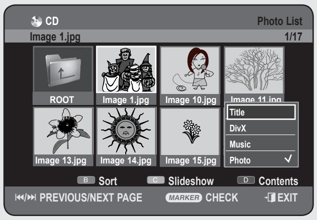

CD
Photo List
Image 1.jpg
1/17
ROOT
Image 1.jpg
Image 10.jpg
Image 11.jpg
Image 13.jpg
Name
Size
Image 15.jpg
Image 16.jpg
B Sort
C Slideshow
D Contents
PREVIOUS/NEXT PAGE
MARKER CHECK
EXIT

When you need to change the Sort order of Photo List, you can change it simply.

1. While the list menu is displayed, press the **GREEN(B)** button to select **Sort**.
2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.
   - **Name** : In alphabetical order
   - **Size** : In order of photo file size.

- You can sort by Name, Size. Sorted list will be resorted in copied order upon reentering Photo List.

Select Contents


CD
Photo List
Image 1.jpg
1/17
ROOT
Image 1.jpg
Image 10.jpg
Image 11.jpg
Title
DivX
Music
Photo ✓
Image 13.jpg
Image 14.jpg
Image 15.jpg
B Sort
C Slideshow
D Contents
PREVIOUS/NEXT PAGE
MARKER CHECK
EXIT

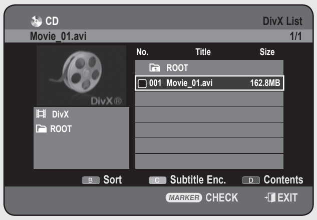
To setup, follow steps 1 to 3 in page 56.

1. Press the **BLUE(D)** button to select **Contents**.
2. Press the ▲▼ buttons to select the contents you want to move, then Press the **OK** or ► button.

- This function is possible only when the disc contains the selected contents.

Playing a DivX

Using the MENU button



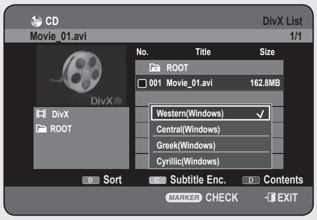
1. Insert a DivX disc into the disc tray.
   - The menu is displayed
2. Press the ▲▼ buttons to select **Library**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **DivX**, then press the **OK** or ► button.
4. Press the ▲▼ buttons to select the avi file (DivX), then press the **OK** or **PLAY** (⏯) button.
5. When DivX file is played, you can use following functions. Pressing the **STOP** (■) button once during playback will display the file list, pressing the button again will exit the menu screen.

DivX Function Description

Function	Description
Skip	During play, press the **SKIP** (⏮⏭) buttons, it moves forward or backward 5 minutes.
Search	During play, press the **SEARCH** (⏪⏩) buttons and press again to search at a faster speed. (X 2, X 4, X 8)
Slow Motion Play	In pause mode(II Pause), press the **SEARCH** (⏩) button on the remote control. (1/2, 1/4, 1/8) Reverse Slow Motion Play is not available.
Step Motion Play	In pause mode(II Pause), press the **SKIP** (⏭) buttons on the remote control. Reverse Step Motion Play is not available.

- This unit can play the following video compression formats,
  - DivX Video (Codec) Format : DivX 3.11 DivX 4.x DivX 5.x (without QPEL and GMC)
  - DivX Audio (Codec) Format : MP3, MPEG1 Audio Layer 2, LPCM, AC3
- Supported subtitle file formats: .smi, .srt, .sub, .psb, .txt, .ass (The subtitle file should have exactly the same name to corresponding DivX file name)
- Some DivX files created on a personal computer may not be play back. That is why Codec Type, Version and Higher resolution over specification are not supported.
- You cannot play back the disc that is larger than a 720 x 576 pixel resolution.

DivX Subtitle Encoding

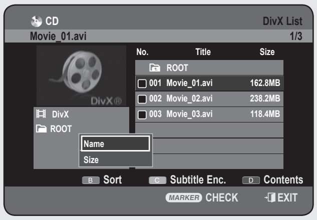

CD
DivX List
Movie_01.avi
1/1
No.
Title
Size
ROOT
001 Movie_01.avi
162.8MB
DivX
ROOT
Western(Windows) ✓
Central(Windows)
Greek(Windows)
Cyrillic(Windows)
B Sort
C Subtitle Enc.
D Contents
MARKER CHECK
EXIT

1. Press the **YELLOW(C)** button in the file list.
2. Press the ▲▼ buttons to select a supported DivX subtitle language by region, then press the **OK** button.

Western	Afrikaans, Basque, Catalan, Danish, Dutch, English, Faeroese, Finnish, French, German, Icelandic, Indonesian, Italian, Malay, Norwegian, Portuguese, Spanish, Swahili, Swedish
Central	English, Albanian, Croatian, Czech, Hungarian, Polish, Romanian, Serbian(Latin), Slovak, Slovenian
Greek	English, Greek
Cyrillic	English, Azeri, Belarusian, Bulgarian, Kazakh, Macedonian, Russian, Serbian, Tatar, Ukrainian, Uzbek

- If the subtitle language is displayed in broken fonts, change DivX Subtitle to the appropriate region. If is still does not work, the format is not supported.

Using the Sort

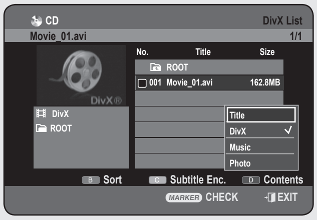

CD
DivX List
Movie_01.avi
1/3
No.
Title
Size
ROOT
001 Movie_01.avi
162.8MB
002 Movie_02.avi
238.2MB
003 Movie_03.avi
118.4MB
DivX
ROOT
Name
Size
B Sort
C Subtitle Enc.
D Contents
MARKER CHECK
EXIT

When you need to change the Sort order of DivX List, you can change it simply.

1. While the list menu is displayed, press the **GREEN(B)** button to select **Sort**.
2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.
   - **Name** : In alphabetical order
   - **Size** : In order of DivX file size.

- You can sort by Name, Size. Sorted list will be resorted in copied order upon reentering DivX List.

Select Contents


CD
DivX List
Movie_01.avi
1/1
No.
Title
Size
ROOT
001 Movie_01.avi
162.8MB
DivX
ROOT
Title
DivX ✓
Music
Photo
B Sort
C Subtitle Enc.
D Contents
MARKER CHECK
EXIT

1. Press the **BLUE(D)** button to select **Contents**.
2. Press the ▲▼ buttons to select the contents you want to move, then Press the **OK** or ► button.

- This function is possible only when the disc contains the selected contents.

Recording

This section shows various DVD Recording methods. This unit can record on various types of discs. Before recording, read the following instructions and select the disc type according to your preference.

Recordable Discs

This DVD Recorder can record on the following discs.

DVD-RAM	DVD-RW	DVD-R
DVD RAM	DVD RW	DVD R

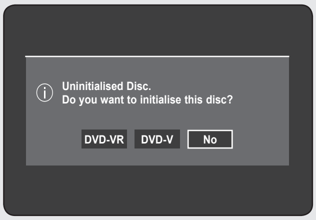
- DVD-RAMs and DVD-RWs are rewritable.
- DVD-Rs are non-rewritable.

Compatibility between Samsung and Other Company's Recorder

Disc Types	Recording format	Recording Device	Finalising	Additional Recording in Samsung Recorder
DVD-RAM	VR Mode	Samsung	X	Recordable
		Other Company	X	Recordable
DVD-RW	VR Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Recordable
	V Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Not recordable
DVD-R	V Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Not recordable

- Finalise
  - This closes the DVD-RW/-R so no additional recording can be done.
- Unfinalise
  - This allows additional recording on a DVD-RW disc originally recorded on the DVD Recorder.
  - A DVD-RW disc that has been recorded by DAO(Disc At Once) in a PC cannot be unfinalised.
  - A DVD-RW disc that has been recorded in Video Mode of a different maker's recorder cannot be unfinalised.
  - A DVD-R disc cannot be unfinalised.
- An additional recording could be failed in the same recorder of SAMSUNG.

<DVD-RW>



Uninitialised Disc.
Do you want to initialise this disc?

Recording Formats

When you insert an unused disc, the following message appears. Since available functions differ depending on the disc type, select a disc that best fits your preferences.

DVD-RAM : Formatting will be started automatically.

DVD-RW : Use after initialising the disc.
If you want to change the VR or V mode, refer to Formatting a Disc on page 86.

DVD-R : Formatting disc is unnecessary and only V Mode Recording is supported.

DVD-RAM/-RW(VR mode)

- This mode allows multiple editing functions (such as deletion of the whole title, partial deletion of a title, etc.).
- Various editing options using a created Playlist.

DVD-RW(V mode)/-R

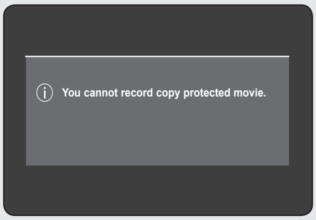
- Chapters will be created automatically when you finalise recording on DVD-RW/-R discs in V mode.
  The chapter’s length (interval between chapters) varies according to the recording mode.
- Simple editing (erasing titles/changing title name).

Recording Mode

Select one of four recording modes by pressing the REC MODE button repeatedly while the unit is in Stop mode for the desired recording time and picture quality. In general, picture quality improves as the recording time decreases. In FR mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording. This function is selected only one mode in XP, SP, LP and EP modes and you can use this mode for timer recording.

Recording Mode	**Recording Times**
	DVD-RAM/-RW/-R
XP (high quality mode)	Approx. 1 hour about 8.5 Mbps
SP (standard quality mode)	Approx. 2 hours about 4.5 Mbps
LP (long recording mode)	Approx. 4 hours about 2 Mbps
EP (extended mode)	Approx. 6 hours/ about 1.6 Mbps Approx. 8 hours/ about 1.2 Mbps
FR (Flexible Recording)	Approx. 1~8 hours

- Recording time may vary according to specific conditions.
- 1GB = 1,000,000,000 bytes; actual formatted capacity may be less as the internal firmware uses a portion of the memory.
- The dual layer DVD-Rs have approximately double the capacity of single layer DVD-Rs. (See page 40)
- DVB-T recording is possible only on FR mode.
- On DVB-T recording, recording mode will be automatically determined depending on the quality of the video (or audio).



You cannot record copy protected movie.

Unrecordable pictures

Video with copy protection cannot be recorded on this DVD Recorder. When the DVD Recorder receives a copy- guard signal while recording, recording stops and the following message appears on the screen.

Concerning Copy Control Signals

TV broadcasts that contain copy control signals may have one of the following three signal types, Copy-Free, Copy-Once and Copy-Never. If you want to record a copy-once type programme, use DVD-RW with CPRM in VR Mode.

Signal type **Media**	**Copy-Free**	**Copy-Once**	**Copy-Never**
DVD-RW(Ver.1.1)	O	–	–
DVD-RW(Ver.1.1) with CPRM VR mode V mode	O O	O*	– –
DVD-R	O		–
DVD-RAM(Ver.2.0)	O	O*	–

Once "Copy Once" has been recorded, recording cannot be done anymore.

◆ Content Protection for Recordable Media (CPRM)

CPRM is a mechanism that ties a recording to the media on which it is recorded. It is supported by some DVD Recorders, but not by many DVD players. Each blank recordable DVD has a unique 64-bit media ID etched in the BCA. When protected content is recorded onto the disc, it can be encrypted with a 56-bit C2 (Cryptomeria) cipher derived from the media ID.

During playback, the ID is read from the BCA and used to generate a key to decrypt the contents of the disc. If the contents of the disc are copied to other media, the ID will be absent or wrong and the data will not be decryptable.

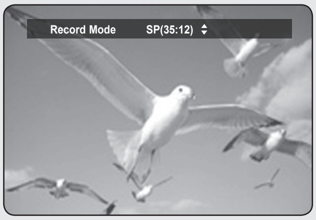
Recording immediately

DVD-RAM DVD-RW DVD-R

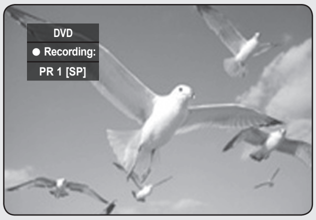
Before you start

1. Check that the disc has enough available space for the recording. Adjust the recording mode.
2. Press the **OPEN/CLOSE** button and place a recordable disc on the disc tray.
3. Press the **OPEN/CLOSE** button to close the disc tray. Wait until "LOAD" disappears from the front panel display.

Recording the current TV programme you are watching



Record Mode SP(35:12) ⬍



DVD

● Recording:

PR 1 [SP]

1. Press the **PROG** (⌄ ⌃) or number buttons to select the current programme you want to record.
2. Press the **REC MODE** button repeatedly, (or press the **REC MODE** button and then press the ▲▼ buttons) to select the recording speed(quality).

   → SP → LP → EP → XP

3. Press the **REC** button.
   Information concerning the channel is displayed on the screen, then recording begins.
   Icon(◯) is displayed on the front panel.

Recording from external equipment you are watching

1. Press the **INPUT SEL.** button to select the input source according to the connection you made.
   The front panel display changes in the following sequence:

   → PR Number → AV1 → AV2 → AV3 → DV

   If you connect a digital camcorder, press the **INPUT SEL.** button to select **DV**. (See page 66)
2. Press the **REC MODE** button repeatedly, (or press the **REC MODE** button, then press the ▲▼ buttons) to select the recording speed (quality).

   → SP → LP → EP → XP

3. Press the **REC** button.
Information concerning the external input mode is displayed on the screen, then recording begins. Icon(○) is displayed on the front panel.

To pause recording

- Press the **PLAY/PAUSE** (⏯) button to pause a recording in progress.
- Press the **PLAY/PAUSE** (⏯) button again to resume recording.
- You can switch channels by pressing the **PROG** (⌄ ⌃) buttons while recording pauses. (Analogue broadcasting only)

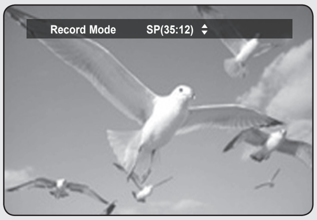
- In DTV mode, if you press the REC PAUSE button:
  - The channel will not be switched and the TV/RADIO key is disabled.
  - Switching to the analog channel or changing the input source will be applied after the recording is stopped.
- In ANALOG mode, if you press the REC PAUSE button:
  - Switching to DTV mode will be applied after the recording is stopped.

To stop recording

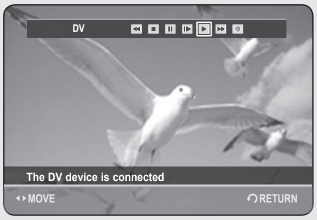
Press the **STOP** (■) button to stop or finish a recording in progress.

- The message “Updating the information of disc. Please wait for a moment” is displayed.

- You can not change the recording mode while recording.
- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a DVD-RAM/-RW/-R disc.
- Recording will stop automatically if a copy protected image is selected.
- DVD-RAM/-RW discs must be formatted before starting to record. Most new discs are sold unformatted.
- Do not use DVD-R authoring discs with this unit.



Record Mode SP(35:12)



The DV device is connected

Copying from a Camcorder

DVD-RAM DVD-RW DVD-R

You may control the Camcorder using the IEEE1394 (DV) interface.

1. Press the **OPEN/CLOSE** button, place a recordable disc on the disc tray.
2. Press the **OPEN/CLOSE** button to close the disc tray.
   Wait until "LOAD" disappears from the front panel display.
3. Press the **REC MODE** button repeatedly to select the recording speed(quality).

   → SP → LP → EP → XP
4. Press the **INPUT SEL.** button to select **DV**.
   If the input is set to DV, a playback/record menu that enables camcorder control appears on the top of the screen.
5. Select the Play (►) icon on the upper part of the screen to playback the camcorder and find the starting position to copy.
6. To start recording, use the ◄► buttons to select Record (●) icon in the top side of the screen, then press the **OK** button.
   You can press the **REC** button of the remote control to start recording.

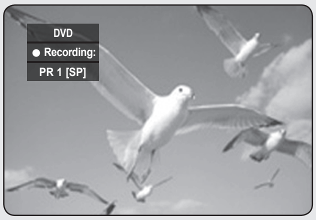
To stop recording

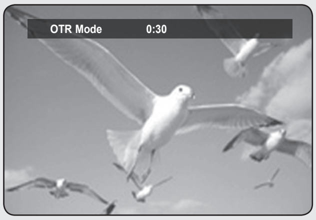
Press the **STOP** (■) button to stop or finish a recording in progress.

- When using DVD-RAM/-RW/-R discs, the message "Updating the information of disc. Please wait for a moment" is displayed.

- To display playback related icons on the screen, press any direction button on the remote control.

Making a One Touch Recording (OTR)


DVD
● Recording:
PR 1 [SP]


OTR Mode 0:30

DVD-RAM DVD-RW DVD-R

You can set the DVD Recorder to record in 30-minute increments up to 8 hours by pressing the REC button.

1. Press the **OPEN/CLOSE** button, place a recordable disc on the disc tray.
2. Press the **OPEN/CLOSE** button to close the disc tray.
   Wait until "LOAD" disappears from the front panel display.
3. Press the **REC MODE** button repeatedly to select the recording speed(quality).
   → SP → LP → EP → XP
4. Press the **PROG** (﹀ ︿) or number buttons to select the programme to record. If you want to record through a connected external component, press the **INPUT SEL.** button to select an appropriate external input(AV1, AV2, AV3, DV or PR01).
5. Press the **REC** button to start recording.
6. Press the **REC** button repeatedly to adjust the desired recording time.
   → 0:30 → 1:00 → ... 8:00 → Off

- The timer counter decreases by the minute from 8:00 to 0:00, then the DVD Recorder stops recording.

To stop recording

Press the **STOP** (■) button. The message "Do you want to stop recording?" is displayed.

- Press the ◄► buttons to select **Yes**, then press the **OK** button.
- Or press the **STOP** (■) button again.

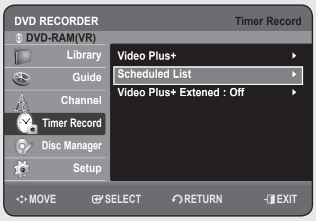
Making a Timer Recording

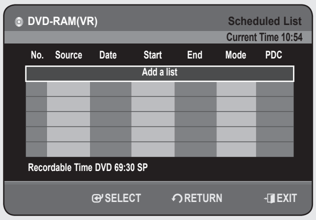
DVD-RAM DVD-RW DVD-R

1. **Check the antenna cable is connected.**
2. **Check the remaining time of the disc.**
3. **Check the date and time are correct.**

Make sure the Clock (Setup-Clock Set) must be set before you proceed with a timer recording. (See pages 24~25)

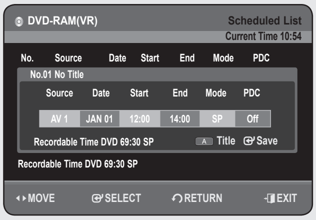
Using the TIMER button


DVD RECORDER
Timer Record
DVD-RAM(VR)
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Video Plus+
Scheduled List
Video Plus+ Extened : Off
MOVE
SELECT
RETURN
EXIT


DVD-RAM(VR)
Scheduled List
No.
Source
Date
Start
End
Mode
PDC
Add a list
SELECT
RETURN
EXIT

Current Time 10:54

Recordable Time DVD 69:30 SP


DVD-RAM(VR)
Scheduled List
No.
Source
Date
Start
End
Mode
PDC
No.01 No Title
Title
Save
MOVE
SELECT
RETURN
EXIT

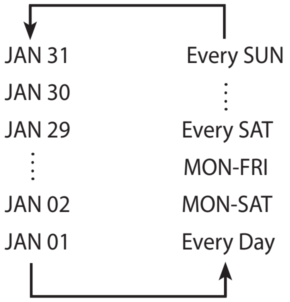
Current Time 10:54

Source	Date	Start	End	Mode	PDC
AV 1	JAN 01	12:00	14:00	SP	Off

Recordable Time DVD 69:30 SP

Recordable Time DVD 69:30 SP

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Timer Record**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Scheduled List**, then press the **OK** or ► button.
4. Press the **OK** button to select **Add a list**.
5. Set timer recording option.
   - Fill the input items using the ▲▼◄► buttons and number buttons.
     ◄► : Moves to the previous/next item.
     ▲▼, 0~9 : Sets a value.
   - **Source** : The video input source (AV1, AV2 or AV3), or the broadcasting channel you want to make a timer recording from.
     To convert DTV/Analogue, press **DTV/ANALOG** button of the remote control.
     On the DTV mode, you can change TV or RADIO by pressing the **TV/RADIO** button on the remote control.
   - **Date** : Timer Recording allows setting the recording time within one month period. Set the recording day. (month/day)


JAN 31
JAN 30
JAN 29
⋮
JAN 02
JAN 01
Every SUN
⋮
Every SAT
MON-FRI
MON-SAT
Every Day

   - Start/End Time : Start and end time of the timer recording.
   - Mode (Recording Mode) :
     - FR (Flexible Recording) : Select when you want to set video quality automatically. In FR mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording. This function is selected only one mode in XP, SP, LP and EP modes.
     - XP (high quality) : Select when video quality is important.
     - SP (standard quality) : Select to record in standard quality.
     - LP (low quality) : Select when a long recording time is required.
     - EP (extended) : Select when a longer recording time is required.
     - The dual layer DVD-Rs have approximately double the capacity of single layer DVD-Rs. (See page 40)

- When you are recording at EP mode on a DVD-RW(V mode)/-R disc, it may not record the full 6 or 8 hours because the unit uses the VBR(Variable Bit Rate) ENCODING system. For example, if you record a programme with a lot of action,
  it uses a higher bit rate which in turn consumes more disc memory.
- DVB-T Timer recording is possible only on FR mode.
- On DVB-T recording, recording mode will be automatically determined depending on the quality of the video (or audio).

- **PDC** : PDC (Programme Delivery Control) function.
  - If you set this function on, you can control the starting and ending time of recording by special signal included in the broadcasting signal. If a TV programme is shortened or starts earlier or later than scheduled, this function synchronizes the starting and ending time of recording with the actual broadcasting time automatically.
  - Set up the start-time EXACTLY according to the published TV schedule. Otherwise the timer recording will not operate.
  - Do not select PDC unless you are sure the programme you wish to record is broadcast with PDC.
- **TITLE** : To label the title name, press the **RED(A)** button.
  Title renaming screen appears.
  Follow steps 4 and 5 of "Renaming (Labeling) a Title" on page 74.

6. After selecting the set up value for each mode, press the **OK** button to select **Save**.
   - ◷ will appear on the front panel. It means that a timer recording is registered.

   If the timer settings overlap;
   The programmes are recorded in order of priority. After recording of the first programme is complete, the second programme starts being recorded.

   To exit without saving the current setting
   Press the **EXIT (⊙)** button.

   To return to the previous menu
   Press the **RETURN** button if you don't want to set a timer recording.
7. Turn the power off to finish the Timer Recording setting.
   Timer Recording will not work when the power is on.

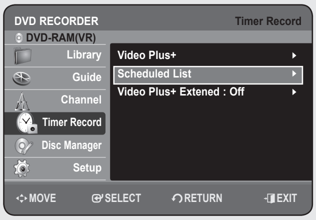
- The timer recording time may differ from the set time depending on disc status and overall timer recording status (for example, recording times overlapping, or when the previous recording ends within 2 minutes before the start time of the next recording.)
- You can make the Timer Recording up to 12 programmes.
- If you have set the Timer Recording using PDC, the fan can still operate and make a noise when the power is off.

Editing the Scheduled List

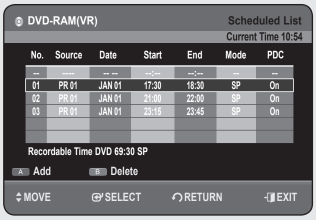
Follow these directions to edit the Scheduled List.

Using the TIMER button

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Timer Record**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Scheduled List**, then press the **OK** or ► button.
4. Press the ▲▼ buttons to select the number of the Scheduled List you want to edit, then press the **OK** button.
   - Edit the items you want to modify. See the “Making a Timer Recording” section for more information on Timer Recording Input items. (See pages 68~69)
5. Press the **OK** button to confirm the edited setting.
6. Press the **EXIT** (⏏) button after finishing the operation.
   The Scheduled List screen will disappear.


DVD RECORDER
Timer Record
DVD-RAM(VR)
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Video Plus+
Scheduled List
MOVE
SELECT
RETURN
EXIT

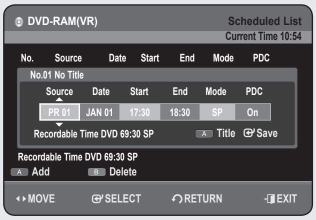
Video Plus+ Extened : Off


DVD-RAM(VR)
Scheduled List
A Add
B Delete
MOVE
SELECT
RETURN
EXIT

Current Time 10:54

No.	Source	Date	Start	End	Mode	PDC
--	----	-- --	--:--	--:--	--	--
01	PR 01	JAN 01	17:30	18:30	SP	On
02	PR 01	JAN 01	21:00	22:00	SP	On
03	PR 01	JAN 01	23:15	23:45	SP	On

Recordable Time DVD 69:30 SP


DVD-RAM(VR)
Scheduled List
A Title
Save
A Add
B Delete
MOVE
SELECT
RETURN
EXIT

Current Time 10:54

No.01 No Title

Source	Date	Start	End	Mode	PDC
PR 01	JAN 01	17:30	18:30	SP	On

Recordable Time DVD 69:30 SP

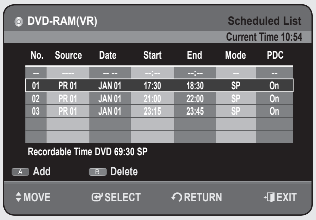
Recordable Time DVD 69:30 SP

Adding a Scheduled List

Follow these directions to add an entry from the Scheduled List.

Using the TIMER button

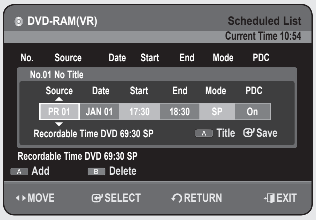
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Timer Record**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Scheduled List**, then press the **OK** or ► button.
4. Press the ▲▼ buttons to select the number of the Scheduled List, then press the **RED(A)** button.
   - Set the items you want to add. See the “Making a Timer Recording” section for more information on Timer Recording Input items. (See pages 68~69)
5. Press the **OK** button to confirm the added setting.
6. Press the **EXIT** (⏏) button after finishing the operation.
   The Scheduled List screen will disappear.


DVD-RAM(VR)
Scheduled List
A Add
B Delete
MOVE
SELECT
RETURN
EXIT

Current Time 10:54

No.	Source	Date	Start	End	Mode	PDC
--	----	-- --	--:--	--:--	--	--
01	PR 01	JAN 01	17:30	18:30	SP	On
02	PR 01	JAN 01	21:00	22:00	SP	On
03	PR 01	JAN 01	23:15	23:45	SP	On

Recordable Time DVD 69:30 SP


DVD-RAM(VR)
Scheduled List
A Title
Save
A Add
B Delete
MOVE
SELECT
RETURN
EXIT

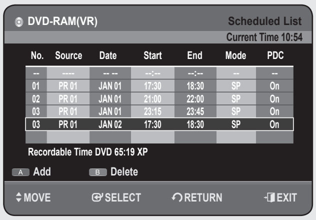
Current Time 10:54

No.01 No Title

Source	Date	Start	End	Mode	PDC
PR 01	JAN 01	17:30	18:30	SP	On

Recordable Time DVD 69:30 SP

Recordable Time DVD 69:30 SP


DVD-RAM(VR)
Scheduled List
A Add
B Delete
MOVE
SELECT
RETURN
EXIT

Current Time 10:54

No.	Source	Date	Start	End	Mode	PDC
--	----	-- --	--:--	--:--	--	--
01	PR 01	JAN 01	17:30	18:30	SP	On
02	PR 01	JAN 01	21:00	22:00	SP	On
03	PR 01	JAN 01	23:15	23:45	SP	On
03	PR 01	JAN 02	17:30	18:30	SP	On

Recordable Time DVD 65:19 XP

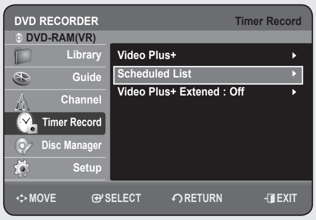
Deleting a Scheduled List

DVD-RAM DVD-RW DVD-R

Follow these directions to delete an entry from the Scheduled List.

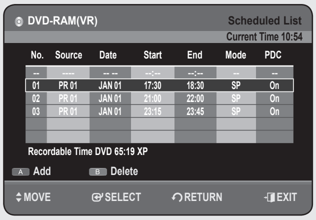
Using the TIMER button

1. With the unit in Stop mode, press the **TIMER** button.
2. Press the **OK** or ► button to select **Scheduled List**.
3. Press the ▲▼ buttons to select the number of the Scheduled List you want to delete, and then press the **GREEN(B)** button.
   - You will be prompted with the delete confirm message such as “Do you want to delete?”.
4. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   - The selected entry will be deleted from the list.
5. Press the **EXIT (**⊡**)** button after finishing the operation.
   The Scheduled List screen will disappear.


DVD RECORDER Timer Record
DVD-RAM(VR)

Video Plus+ Extened : Off

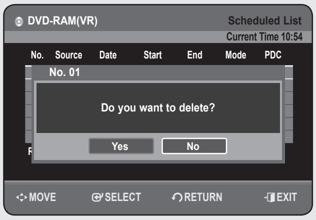
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Video Plus+
Scheduled List
MOVE
SELECT
RETURN
EXIT


DVD-RAM(VR) Scheduled List
Current Time 10:54

No.	Source	Date	Start	End	Mode	PDC
--	----	-- --	--:--	--:--	--	--
01	PR 01	JAN 01	17:30	18:30	SP	On
02	PR 01	JAN 01	21:00	22:00	SP	On
03	PR 01	JAN 01	23:15	23:45	SP	On

Recordable Time DVD 65:19 XP

A Add
B Delete
MOVE
SELECT
RETURN
EXIT


DVD-RAM(VR) Scheduled List
Current Time 10:54

No. 01

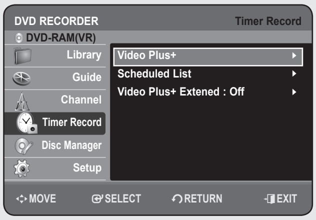
Do you want to delete?

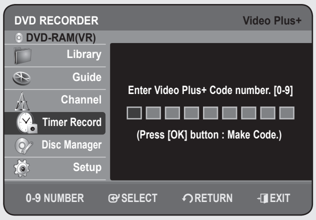
No.
Source
Date
Start
End
Mode
PDC
Yes
No
MOVE
SELECT
RETURN
EXIT

Using the Video Plus+ Feature

DVD-RAM DVD-RW DVD-R

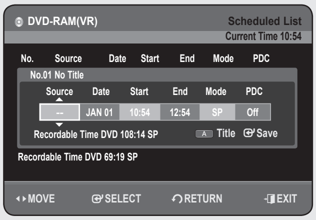
Before presetting your DVD Recorder.
• Switch on both the television and your DVD Recorder.
• Check that the date and time are correct.
Up to twelve programmes can be preset


DVD RECORDER
Timer Record
DVD-RAM(VR)
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Video Plus+
Scheduled List
Video Plus+ Extened : Off
MOVE
SELECT
RETURN
EXIT


DVD RECORDER
Video Plus+
DVD-RAM(VR)
Library
Guide
Channel
Timer Record
Disc Manager
Setup
0-9 NUMBER
SELECT
RETURN
EXIT

Enter Video Plus+ Code number. [0-9]

(Press [OK] button : Make Code.)


DVD-RAM(VR)
Scheduled List
No.
Source
Date
Start
End
Mode
PDC
Title
Save
MOVE
SELECT
RETURN
EXIT

Current Time 10:54

No.01 No Title

Source	Date	Start	End	Mode	PDC
--	JAN 01	10:54	12:54	SP	Off

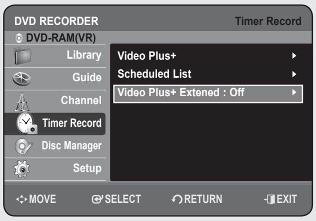
Recordable Time DVD 108:14 SP

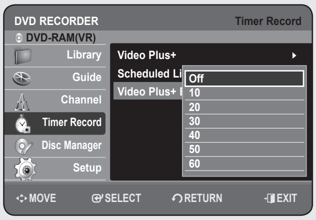
Recordable Time DVD 69:19 SP

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Timer Record**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Video Plus+**, then press the **OK** or ► button.
   - A message is displayed to allow you to enter the Video Plus+ code.
4. Press the number buttons to enter the code of the programme that you want to record in your television magazine.
   - If you want to correct the Video Plus+ code that you are entering:
     - Press the ◄ button until the digit to be corrected is cleared.
     - Enter the correct digit.
5. Press the **OK** button.
   - The information concerning the programme is displayed.
   - When using the Video Plus+ function for the first time with stored stations, the programme number flashes. This one time, you must enter the PR number manually by pressing the ▲▼ buttons.
6. Press the **RED(A)** button if you do not want to use the default title name.
   The rename screen is displayed.
   Follow steps 4 and 5 of "**Renaming (Labeling) a Title**" on page 74.
7. If the programme and times are correct, press the **OK** button.
8. Turn the power off by pressing the **STANDBY/ON** button to activate the timer recording setting.
   - Refer to pages 68~69 if you want to
     - Check whether the timer Recording has set correctly or not.
     - Cancel a preset recording.

- The numbers next to each TV programme listing in the magazines or newspapers are Video Plus+ code numbers, which allow you to programme your DVD Recorder. instantly with the remote control. Enter the Video Plus+ code for the programme you wish to record.
- Video Plus+ is a trademark of Gemstar Development Corporation. The Video Plus+ system is manufactured under licence from Gemstar Development Corporation.

Video Plus+ Extended


DVD RECORDER
Timer Record
DVD-RAM(VR)
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Video Plus+
Scheduled List
Video Plus+ Extened : Off
MOVE
SELECT
RETURN
EXIT


DVD RECORDER
Timer Record
DVD-RAM(VR)
Library
Guide
Channel
Timer Record
Disc Manager
Setup
Video Plus+
Scheduled Li
Video Plus+ I
Off
10
20
30
40
50
60
MOVE
SELECT
RETURN
EXIT

To prevent delays or overruns the DVD Recorder has a function called Video Plus+ Extended allowing you to extended the recording time by up to 60 minutes.
• Only use if PDC is not available or set to OFF.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Timer Record**,
   then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Video Plus+ Extended**,
   then press the **OK** or ► button.
4. Press the ▲▼ buttons to select the Video Plus+ Extended time, then the press **OK** or ► button.
5. Press the **EXIT** ( ) button to exit the menu.

Editing

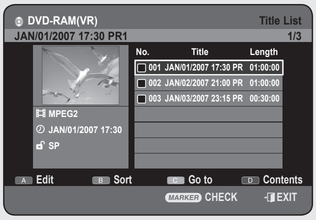
This section introduces basic functions of editing and explains both edit functions for the recording on a disc and edit functions for the entire disc.

Recording or editing might not be completed if an error, such as a sudden power failure occurs.
Please be aware that a material that has been damaged is unable to be retrieved to its original content.

Basic Editing (Title List)

Playing the Title

DVD-RAM DVD-RW DVD-R


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
MPEG2
JAN/01/2007 17:30
SP
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
001	JAN/01/2007 17:30 PR	01:00:00
002	JAN/02/2007 21:00 PR	01:00:00
003	JAN/03/2007 23:15 PR	00:30:00

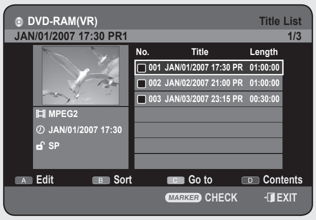
Follow these instructions to play back a scene from the Title List.

Using the TITLE LIST button

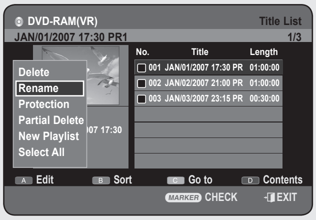
1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **OK** or **PLAY** (▶II) button.
   The selected entry (title) will be played back.
3. To stop title play, press the **STOP**(■) button.
   The screen returns to the Title List screen.

Renaming (Labeling) a Title

DVD-RAM DVD-RW DVD-R


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
MPEG2
JAN/01/2007 17:30
SP
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
001	JAN/01/2007 17:30 PR	01:00:00
002	JAN/02/2007 21:00 PR	01:00:00
003	JAN/03/2007 23:15 PR	00:30:00

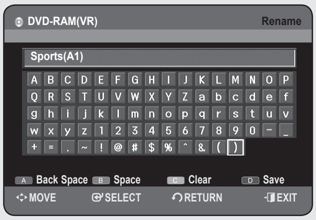

DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
Delete
Rename
Protection
Partial Delete
New Playlist
Select All
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
001	JAN/01/2007 17:30 PR	01:00:00
002	JAN/02/2007 21:00 PR	01:00:00
003	JAN/03/2007 23:15 PR	00:30:00

Follow these instructions to rename a title list entry, i.e., to edit the title of a recorded programme.

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to rename from the Title List, then press the **RED(A)** button.
3. Press the ▲▼ buttons to select **Rename**, then press the **OK** or ▶ button.
   The Rename screen is displayed.
4. Select the desired characters using the ▲▼◀▶ buttons, press the **OK** button.
   - **Back Space (RED(A) button)** : Deletes and moves the cursor backwards by one position.
   - **Space (GREEN(B) button)** : Enters a blank and moves the cursor one forward (to the right).


DVD-RAM(VR)
Rename
Sports(A1)
A B C D E F G H I J K L M N O P
Q R S T U V W X Y Z a b c d e f
g h i j k l m n o p q r s t u v
w x y z 1 2 3 4 5 6 7 8 9 0 - _
+ = . ~ ! @ # $ % ^ & ( )
A Back Space
B Space
C Clear
D Save
MOVE
SELECT
RETURN
EXIT

- **Clear (YELLOW(C) button)** : Deletes all the character inputs.
- **Save (BLUE(D) button)** : Registers the character inputs.

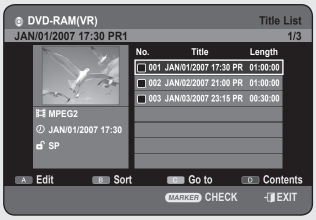
5. Press the **BLUE(D)** button to select **Save**.
The changed title name is displayed on the title item of the selected entry.

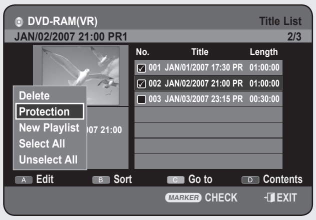
Locking (Protecting) a Title

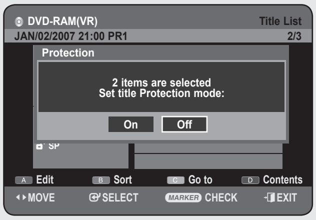
DVD-RAM DVD-RW DVD-R

Follow these instructions to lock an entry to protect it from accidental deletion.

Using the TITLE LIST button


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
No.
Title
Length
001 JAN/01/2007 17:30 PR 01:00:00
002 JAN/02/2007 21:00 PR 01:00:00
003 JAN/03/2007 23:15 PR 00:30:00
MPEG2
JAN/01/2007 17:30
SP
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT


DVD-RAM(VR)
Title List
JAN/02/2007 21:00 PR1
2/3
No.
Title
Length
001 JAN/01/2007 17:30 PR 01:00:00
002 JAN/02/2007 21:00 PR 01:00:00
003 JAN/03/2007 23:15 PR 00:30:00
Delete
Protection
New Playlist
Select All
Unselect All
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT


DVD-RAM(VR)
Title List
JAN/02/2007 21:00 PR1
2/3
Protection
On
Off
A Edit
B Sort
C Go to
D Contents
MOVE
SELECT
MARKER CHECK
EXIT

2 items are selected
Set title Protection mode:

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to protect from the Title List, then press the **MARKER** button until a checkmark appears. Repeat this step to select an additional title you want to protect.
   - If you don't want to protect a certain one of the checked entries, simply select that entry and press the MARKER to deselect it until a checkmark disappears.
3. Press the **RED(A)** button to select **Edit**.
   Edit menu is displayed.
4. Press the ▲▼ buttons to select **Protection**, then press the **OK** or ► button.
5. Press the ◄► buttons to select **On**, then press the **OK** button.
   The key icon on the information window for the selected entry changes to the locked status. (🔓→🔒)
6. If you want to cancel the Protection, select **Off** in step 5 and press the **OK** button. The key icon changes to the unlocked status.
   (🔒 →🔓)

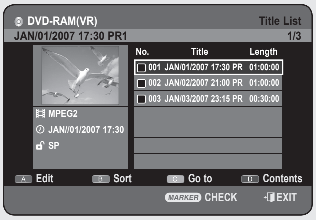
- If you select "Select All" in the Edit menu, all title will be checked.

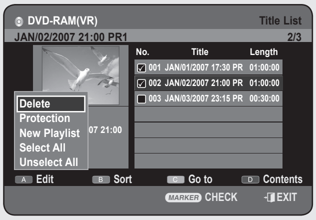
Deleting a Title

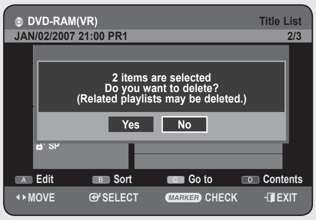
DVD-RAM DVD-RW DVD-R

Follow these instructions to delete an entry from the Title List.

Using the TITLE LIST button


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
No.
Title
Length
☐ 001 JAN/01/2007 17:30 PR 01:00:00
☐ 002 JAN/02/2007 21:00 PR 01:00:00
☐ 003 JAN/03/2007 23:15 PR 00:30:00
MPEG2
JAN//01/2007 17:30
SP
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT


DVD-RAM(VR)
Title List
JAN/02/2007 21:00 PR1
2/3
No.
Title
Length
☑ 001 JAN/01/2007 17:30 PR 01:00:00
☑ 002 JAN/02/2007 21:00 PR 01:00:00
☐ 003 JAN/03/2007 23:15 PR 00:30:00
Delete
Protection
New Playlist
Select All
Unselect All
07 21:00
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT


2 items are selected
Do you want to delete?
(Related playlists may be deleted.)

DVD-RAM(VR)
Title List
JAN/02/2007 21:00 PR1
2/3
Yes
No
SP
A Edit
B Sort
C Go to
D Contents
MOVE
SELECT
MARKER CHECK
EXIT

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to delete in the Title List, then press the **MARKER** button until a checkmark appears. Repeat this step to select an additional title you want to delete.
   - If you don't want to delete a certain one of the checked entries, simply select that entry and press the **MARKER** to deselect it until a checkmark disappears.
3. Press the **RED(A)** button to select **Edit**.
   Edit menu is displayed.
4. Press the ▲▼ buttons to select **Delete**, then press the **OK** or ► button.
   - The message may be different depending on the type of disc. You will be prompted with the confirmation message.
     DVD-RAM(VR mode), DVD-RW(VR mode) : The message "Do you want to delete? (Related playlists may be deleted.)" is displayed.
     DVD-RW(V mode)/-R : The message "Do you want to delete?" is displayed.
5. Press the ◄► buttons to select **Yes**, then press the **OK** button.

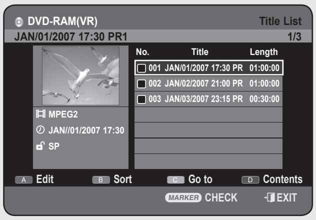
- You cannot delete a protected entry. If you want to delete a protected entry, select "Off" in the Title Protection menu.
  (See page 75)
- When the Disc Protection has been set to Protected, you cannot delete titles.
  (See page 85)
- Once an entry is deleted from the Title List it cannot be recovered.
- Once DVD-RW/-R is finalised, it cannot be deleted.
- With DVD-R, titles are only deleted from the menu, however, the Title remains physically on the disc.
- If you select "Select All" in the Edit menu, all title will be checked.

Deleting a Section of a Title (Partial Delete)

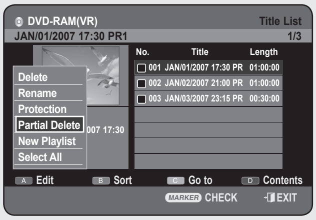
DVD-RAM DVD-RW

(VR mode)

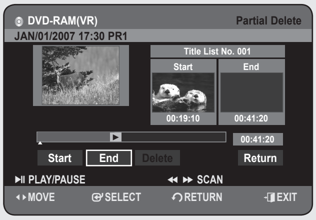
Follow these instructions to delete a section of a Title List entry.

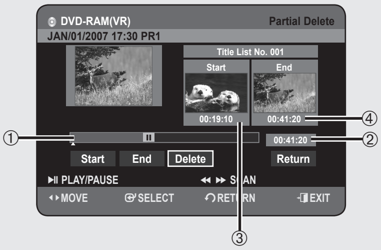

DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
MPEG2
JAN//01/2007 17:30
SP
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

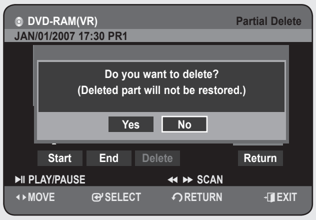
No.	Title	Length
001	JAN/01/2007 17:30 PR	01:00:00
002	JAN/02/2007 21:00 PR	01:00:00
003	JAN/03/2007 23:15 PR	00:30:00


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
Delete
Rename
Protection
Partial Delete
New Playlist
Select All
007 17:30
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
001	JAN/01/2007 17:30 PR	01:00:00
002	JAN/02/2007 21:00 PR	01:00:00
003	JAN/03/2007 23:15 PR	00:30:00


DVD-RAM(VR)
Partial Delete
JAN/01/2007 17:30 PR1
Title List No. 001
Start
End
00:19:10
00:41:20
00:41:20
Start
End
Delete
Return
PLAY/PAUSE
SCAN
MOVE
SELECT
RETURN
EXIT


DVD-RAM(VR)
Partial Delete
JAN/01/2007 17:30 PR1
Title List No. 001
Start
End
00:19:10
00:41:20
00:41:20
①
②
③
④
Start
End
Delete
Return
PLAY/PAUSE
SCAN
MOVE
SELECT
RETURN
EXIT


DVD-RAM(VR)
Partial Delete
JAN/01/2007 17:30 PR1
Yes
No
Start
End
Delete
Return
PLAY/PAUSE
SCAN
MOVE
SELECT
RETURN
EXIT

Do you want to delete?
(Deleted part will not be restored.)

Using the TITLE LIST button

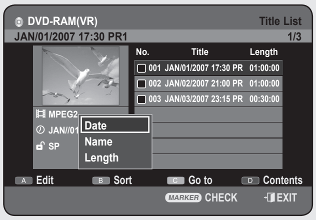
1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to edit from the Title List, then press the **RED(A)** button.
   The Edit menu is displayed.
3. Press the ▲▼ buttons to select **Partial Delete**, then press the **OK** or ► button.
4. Press the **OK** button at the starting point.
   The image and starting point time is displayed in the section deletion starting point window.
   Partial Delete List Screen Elements
   ① Playback bar
   ② Playtime
   ③ Section deletion starting point window and time
   ④ Section deletion end point window and time
   - Select the start and end points of the section you want to delete using the playback related buttons.
   - Playback related buttons : (**PLAY** (⏯), **SEARCH** (⏪⏩).
5. Press the **OK** button at the end point.
   The image and end point time is displayed in the Section deletion ending point window.
6. Press the ◄► buttons to select **Delete**, then Press the **OK** button.
7. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   The selected section has been deleted.
8. Press the ◄► buttons to select **Return**, then press the **OK** button to finish the operation.

- The length of the section to be deleted must be at least 5 seconds long.
- End point cannot be marked earlier than start point
- The section cannot be deleted when it includes a still picture.
- Press the **EXIT** (⎆) button after the operation has finished.
  The Title List screen will disappear.

Using the Sort function (Title List)

DVD-RAM DVD-RW DVD-R

When you need to change the Sort order of Title List, you can change it simply.
You can sort by Date, Name, Length, Channel info. Sorted list will be resorted in chronical order upon reentering Title List.


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
MPEG2
JAN//01
SP
Date
Name
Length
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
001	JAN/01/2007 17:30 PR	01:00:00
002	JAN/02/2007 21:00 PR	01:00:00
003	JAN/03/2007 23:15 PR	00:30:00

1. While the list menu is displayed, press the **GREEN(B)** button to select **Sort**.
2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.
   - **Date** : In order of when the titles were recorded
   - **Name** : In alphabetical order
   - **Length** : In order of recorded title length.

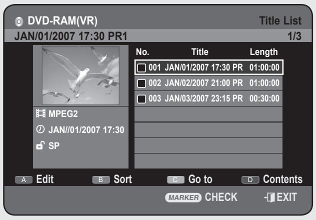
- You can sort by Date, Name, Length, Channel info. Sorted list will be resorted in copied order upon reentering Title List.

Navigation Menu

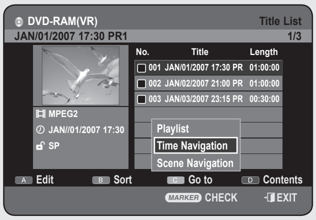
Time Navigation

DVD-RAM DVD-RW
(VR mode)

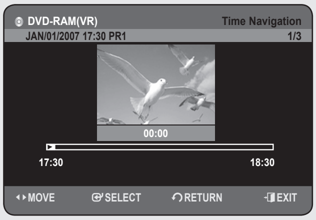
Using this function, you can search scene minute-by-minute from the recorded title list.


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
MPEG2
JAN//01/2007 17:30
SP
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
001	JAN/01/2007 17:30 PR	01:00:00
002	JAN/02/2007 21:00 PR	01:00:00
003	JAN/03/2007 23:15 PR	00:30:00


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
MPEG2
JAN//01/2007 17:30
SP
Playlist
Time Navigation
Scene Navigation
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
001	JAN/01/2007 17:30 PR	01:00:00
002	JAN/02/2007 21:00 PR	01:00:00
003	JAN/03/2007 23:15 PR	00:30:00


DVD-RAM(VR)
Time Navigation
JAN/01/2007 17:30 PR1
1/3
00:00
17:30
18:30
MOVE
SELECT
RETURN
EXIT

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **YELLOW(C)** button.
3. Press the ▲▼ buttons to select **Time Navigation**, then press the **OK** or ► button.
4. Press the ◄► buttons to skip one minute at a time and search the desired scene, then press the **OK** or **PLAY** (►II) button.

- Cursor does not move if the selected recorded title is shorter than 1 minute.
- The Navigation function may not work on a disc that has not been recorded by this device.
- An edited title may not display the exact search time.

Scene Navigation

DVD-RAM DVD-RW

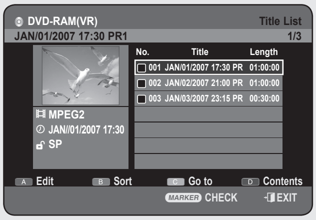
(VR mode)

If there is a title composed of markers (See page 49), you can search the desired scene using the Scene Navigation.

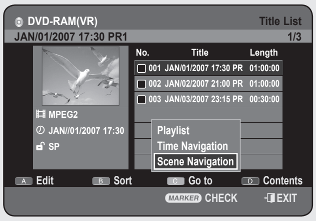
Using the TITLE LIST button

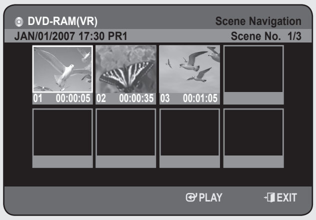
1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **YELLOW(C)** button.
3. Press the ▲▼ buttons to select **Scene Navigation**, then press the **OK** or ► button.
4. Press the ▲▼◄► buttons to select desired scene, then press the **OK** or **PLAY** (⏯) button.

- Scene Navigation will not operate if a selected title does not have Markers.


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
No.
Title
Length
MPEG2
JAN/01/2007 17:30
SP
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
001	JAN/01/2007 17:30 PR	01:00:00
002	JAN/02/2007 21:00 PR	01:00:00
003	JAN/03/2007 23:15 PR	00:30:00


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
MPEG2
JAN/01/2007 17:30
SP
Playlist
Time Navigation
Scene Navigation
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

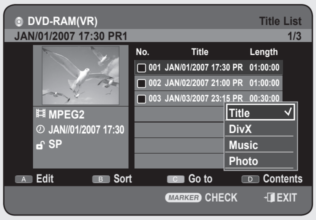

DVD-RAM(VR)
Scene Navigation
JAN/01/2007 17:30 PR1
Scene No. 1/3
01 00:00:05
02 00:00:35
03 00:01:05
PLAY
EXIT

Select Contents

DVD-RAM DVD-RW DVD+R

1. Press the **BLUE(D)** button to select **Contents**.
2. Press the ▲▼ buttons to select the contents you want to move, then Press the **OK** or ► button.

- This function is possible only when the disc contains the selected contents.


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
MPEG2
JAN/01/2007 17:30
SP
Title ✓
DivX
Music
Photo
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

Advanced Editing (Playlist)

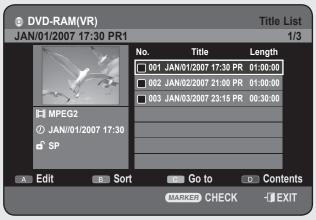
Creating a Playlist

DVD-RAM DVD-RW

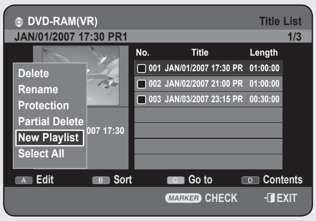
(VR mode)

Follow these instructions to create a new playlist entry from a recorded title.

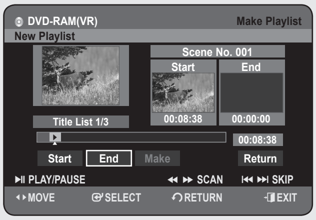
Using the TITLE LIST button

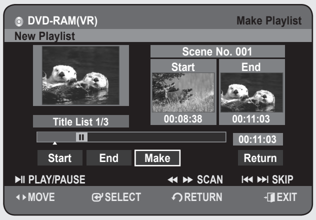

DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
MPEG2
JAN//01/2007 17:30
SP
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
☐ 001	JAN/01/2007 17:30 PR	01:00:00
☐ 002	JAN/02/2007 21:00 PR	01:00:00
☐ 003	JAN/03/2007 23:15 PR	00:30:00


DVD-RAM(VR)
Title List
JAN/01/2007 17:30 PR1
1/3
Delete
Rename
Protection
Partial Delete
New Playlist
Select All
007 17:30
A Edit
B Sort
C Go to
D Contents
MARKER CHECK
EXIT

No.	Title	Length
☐ 001	JAN/01/2007 17:30 PR	01:00:00
☐ 002	JAN/02/2007 21:00 PR	01:00:00
☐ 003	JAN/03/2007 23:15 PR	00:30:00


DVD-RAM(VR)
Make Playlist
New Playlist
Scene No. 001
Start
End
Title List 1/3
00:08:38
00:00:00
00:08:38
Start
End
Make
Return
PLAY/PAUSE
SCAN
SKIP
MOVE
SELECT
RETURN
EXIT


DVD-RAM(VR)
Make Playlist
New Playlist
Scene No. 001
Start
End
Title List 1/3
00:08:38
00:11:03
00:11:03
Start
End
Make
Return
PLAY/PAUSE
SCAN
SKIP
MOVE
SELECT
RETURN
EXIT

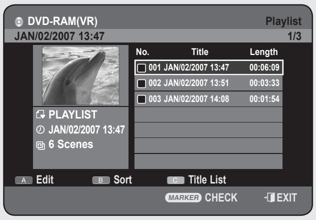
1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the **RED(A)** button.
   The Edit menu is displayed.
3. Press the ▲▼ buttons to select **New Playlist**, then press the **OK** or ► button.
   The Make Playlist screen is displayed.
4. Press the **OK** button at the start point.
   - The image and time at the start point is displayed on the Start window.
   - The yellow-coloured selection bar moves to the **End** item.
   - Select the starting point of the section from which you want to create a new scene using the playback related buttons (**PLAY** (⏯), **SEARCH** (⏪⏩), **SKIP** (⏮⏭)).
5. Press the **OK** button at the end point.
   - The image and end point time is displayed in the **End** window.
   - The yellow-coloured selection bar moves to the **Make** item.
6. Press the ◄► buttons to select **Make**, then press the **OK** button.
   - To make a scene for the playlist.
     A new Make scene screen is displayed. Repeat steps 4~6 to make a new scene for the playlist.
     A new scene will be added to the current playlist.
     You can check and see all the scenes on the Edit playlist screen.
     (See pages 82~84)
   - To make a new playlist.
     Repeat steps 1~6 if you want to make a new playlist.
7. Press the ◄► button to select **Return**, then press the **OK** button to finish the operation.

- You can create up to 99 playlist entries.
- Depending on the kind of disc, the displayed screen may have a slight difference.
- If the related title is erased, the playlist is also erased.

Playing Entries in the Playlist

DVD-RAM DVD-RW
(VR mode)

Follow these instructions to play the playlist entries.


DVD-RAM(VR)
Playlist
JAN/02/2007 13:47
1/3
No.
Title
Length
001 JAN/02/2007 13:47 00:06:09
002 JAN/02/2007 13:51 00:03:33
003 JAN/02/2007 14:08 00:01:54
PLAYLIST
JAN/02/2007 13:47
6 Scenes
A Edit
B Sort
C Title List
MARKER CHECK
EXIT

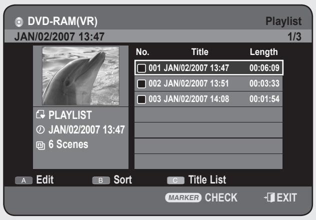
Using the PLAY LIST button

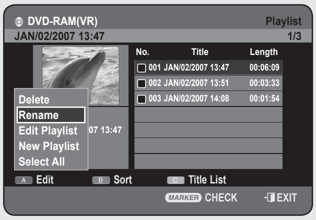
1. With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.
2. Press the ▲▼ buttons to select the playlist you want to play, then press the **OK** or **PLAY** (⏯) button.
3. Press the **STOP** (■) button to stop playing.
   The screen returns to the Playlist screen.

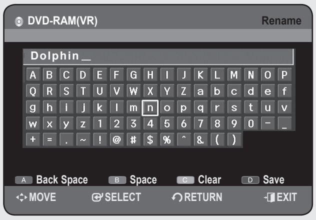
Renaming a Playlist Entry

DVD-RAM DVD-RW
(VR mode)

Follow these instructions to rename a playlist entry, i.e. to edit the title of a playlist entry.


DVD-RAM(VR)
Playlist
JAN/02/2007 13:47
1/3
No.
Title
Length
001 JAN/02/2007 13:47 00:06:09
002 JAN/02/2007 13:51 00:03:33
003 JAN/02/2007 14:08 00:01:54
PLAYLIST
JAN/02/2007 13:47
6 Scenes
A Edit
B Sort
C Title List
MARKER CHECK
EXIT


DVD-RAM(VR)
Playlist
JAN/02/2007 13:47
1/3
No.
Title
Length
001 JAN/02/2007 13:47 00:06:09
002 JAN/02/2007 13:51 00:03:33
003 JAN/02/2007 14:08 00:01:54
Delete
Rename
Edit Playlist
New Playlist
Select All
07 13:47
A Edit
B Sort
C Title List
MARKER CHECK
EXIT


DVD-RAM(VR)
Rename
Dolphin_
A B C D E F G H I J K L M N O P
Q R S T U V W X Y Z a b c d e f
g h i j k l m n o p q r s t u v
w x y z 1 2 3 4 5 6 7 8 9 0 - _
+ = . ~ ! @ # $ % ^ & ( )
A Back Space
B Space
C Clear
D Save
MOVE
SELECT
RETURN
EXIT

Using the PLAY LIST button

1. With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.
2. Press the ▲▼ buttons to select the title you want to Rename from the Playlist, then press the **RED(A)** button.
   The Edit menu is displayed.
3. Press the ▲▼ buttons to select **Rename**, then press the **OK** or ► button.
   The Rename screen is displayed.
4. Select the desired characters using the ▲▼◄► buttons, then press the **OK** button.
   - **Back Space (RED(A) button)** : Deletes and moves the cursor backwards by one position.
   - **Space (GREEN(B) button)** : Enters a blank and moves the cursor one forward (to the right).
   - **Clear (YELLOW(C) button)** : Deletes all the character inputs.
   - **Save (BLUE(D) button)** : Registers the character inputs.
5. Press the **BLUE(D)** button to select **Save**.
   The changed title is displayed in the title field of the selected playlist entry.

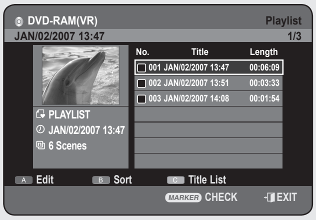
Editing a Scene for the Playlist

DVD-RAM DVD-RW
(VR mode)

Follow these instructions to edit scenes for a playlist.

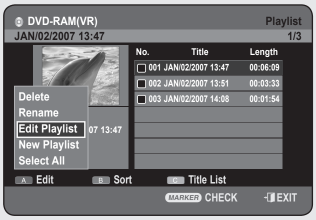
Using the PLAY LIST button

1. With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.

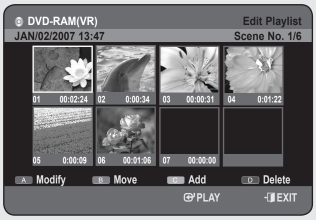

DVD-RAM(VR)
Playlist
JAN/02/2007 13:47
1/3
PLAYLIST
JAN/02/2007 13:47
6 Scenes
A Edit
B Sort
C Title List
MARKER CHECK
EXIT

No.	Title	Length
☐ 001	JAN/02/2007 13:47	00:06:09
☐ 002	JAN/02/2007 13:51	00:03:33
☐ 003	JAN/02/2007 14:08	00:01:54

2. Press the ▲▼ buttons to select the title you want to edit from the Playlist, then press the **RED(A)** button.
   The Edit menu is displayed.


DVD-RAM(VR)
Playlist
JAN/02/2007 13:47
1/3
No.
Title
Length
001 JAN/02/2007 13:47 00:06:09
002 JAN/02/2007 13:51 00:03:33
003 JAN/02/2007 14:08 00:01:54
Delete
Rename
Edit Playlist
New Playlist
Select All
07 13:47
A Edit
B Sort
C Title List
MARKER CHECK
EXIT

3. Press the ▲▼ buttons to select **Edit Playlist**, then press the **OK** or ► button.
   The Edit Playlist screen is displayed.


DVD-RAM(VR)
Edit Playlist
JAN/02/2007 13:47
Scene No. 1/6
01 00:02:24
02 0:00:34
03 00:00:31
04 0:01:22
05 0:00:09
06 00:01:06
07 00:00:00
A Modify
B Move
C Add
D Delete
PLAY
EXIT

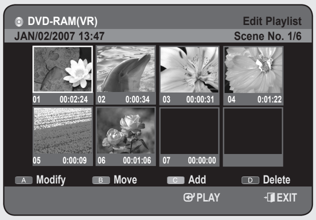
Playing a Selected Scene

4. Press the ▲▼◄► buttons to select the scene you want to play, then press the **OK** or **PLAY** (⏯) button.
   The selected scene is played.
   - To stop scene play, press the **STOP** (■) button.

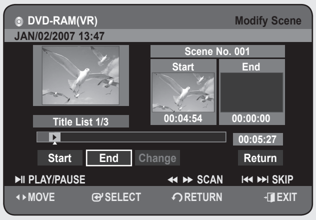
Modifying a Scene (Replacing a Scene)

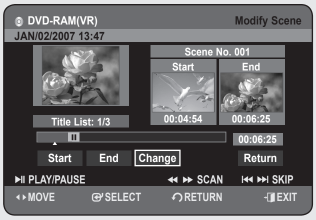
To setup, follow steps 1 to 3.

4-1. Press the ▲▼◄► buttons to select the scene you want to Modify, then press the **RED(A)** button.
The Modify Scene screen is displayed.


DVD-RAM(VR)
Edit Playlist
JAN/02/2007 13:47
Scene No. 1/6
01 00:02:24
02 0:00:34
03 00:00:31
04 0:01:22
05 0:00:09
06 00:01:06
07 00:00:00
A Modify
B Move
C Add
D Delete
PLAY
EXIT

5. Press the **OK** button at the start point of the scene.
   - The image and starting point time is displayed on the **Start** window.
   - Select the starting or ending point of the section you want to modify using the playback related buttons.
     (**PLAY** (⏯), **SEARCH** (⏪⏩), **SKIP** (⏮⏭)).

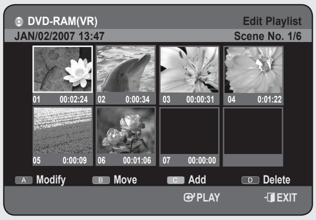

DVD-RAM(VR)
Modify Scene
JAN/02/2007 13:47
Scene No. 001
Start
End
00:04:54
00:00:00
Title List 1/3
00:05:27
Start
End
Change
Return
PLAY/PAUSE
SCAN
SKIP
MOVE
SELECT
RETURN
EXIT

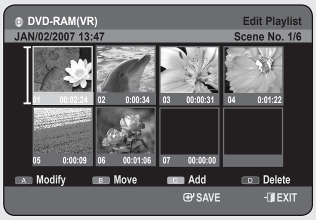

DVD-RAM(VR)
Modify Scene
JAN/02/2007 13:47
Scene No. 001
Start
End
Title List: 1/3
00:04:54
00:06:25
00:06:25
Start
End
Change
Return
⏯ PLAY/PAUSE
⏪ ⏩ SCAN
⏮ ⏭ SKIP
MOVE
SELECT
RETURN
EXIT

6. Press the **OK** button at the end point of the scene.
   - The image and ending point time is displayed in the End window.
7. Press the ◄► buttons to select **Change**, then press the **OK** button.
   - The scene you want to modify is changed with the selected section.

Moving a Scene (Changing the Position of a Scene)

To setup, follow steps 1 to 3 in page 82.


DVD-RAM(VR)
Edit Playlist
JAN/02/2007 13:47
Scene No. 1/6
01 00:02:24
02 0:00:34
03 00:00:31
04 0:01:22
05 0:00:09
06 00:01:06
07 00:00:00
A Modify
B Move
C Add
D Delete
PLAY
EXIT


DVD-RAM(VR)
Edit Playlist
JAN/02/2007 13:47
Scene No. 1/6
01 00:02:24
02 0:00:34
03 00:00:31
04 0:01:22
05 0:00:09
06 00:01:06
07 00:00:00
A Modify
B Move
C Add
D Delete
SAVE
EXIT

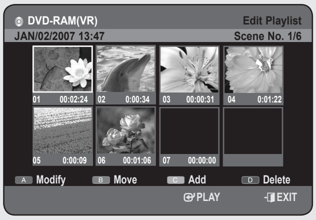
4-1. Press the ▲▼◄► buttons to select the scene you want to move (change the position), then press the **GREEN(B)** button.
   - A yellow selection window is displayed on the scene to be moved.

5. Press the ▲▼◄► buttons to select the position to which you want to move the selected scene, then select the **OK** button.

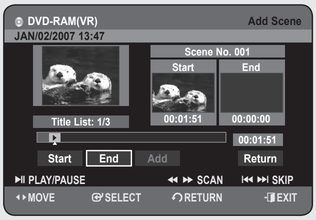
- ■ You cannot move the selected scene to the position of the next scene, because the selected scene should be inserted before that position, which requires no action.
- ■ Depending on the kind of disc, the displayed screen may have a slight difference.

Adding a Scene

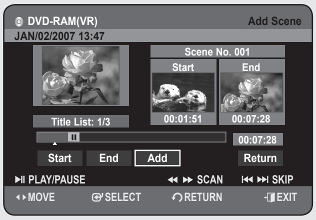
To setup, follow steps 1 to 3 in page 82.


DVD-RAM(VR)
Edit Playlist
JAN/02/2007 13:47
Scene No. 1/6
01 00:02:24
02 0:00:34
03 00:00:31
04 0:01:22
05 0:00:09
06 00:01:06
07 00:00:00
A Modify
B Move
C Add
D Delete
PLAY
EXIT

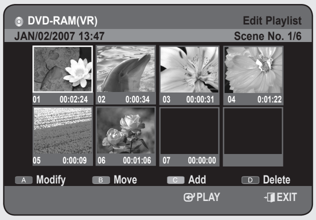
4-1. Press the ▲▼◄► buttons to select the scene that will have a new scene inserted before it, then press the **YELLOW(C)** button.
The Add Scene screen is displayed.


DVD-RAM(VR)
Add Scene
JAN/02/2007 13:47
Scene No. 001
Start
End
Title List: 1/3
00:01:51
00:00:00
00:01:51
Start
End
Add
Return
⏯ PLAY/PAUSE
⏪ ⏩ SCAN
⏮ ⏭ SKIP
MOVE
SELECT
RETURN
EXIT

5. Press the **OK** button at the starting point of the scene.
   - The image and starting point time is displayed on the **Start** window.
   - Select the starting or ending point of the section you want to modify using the playback related buttons (**PLAY** (⏯), **SEARCH** (⏪⏩), **SKIP** (⏮ ⏭)).
6. Press the **OK** button at the end point of the scene.
   - The image and end point time are displayed in the **End** window.
   - To cancel, press the ◄► buttons to select **Return**, then press the **OK** button.


DVD-RAM(VR)
Add Scene
JAN/02/2007 13:47
Scene No. 001
Start
End
Title List: 1/3
00:01:51
00:07:28
00:07:28
Start
End
Add
Return
⏯ PLAY/PAUSE
⏪ ⏩ SCAN
⏮ ⏭ SKIP
MOVE
SELECT
RETURN
EXIT

7. Press the ◄► buttons to select **Add**, then press the **OK** button.
   - The section you want to add is inserted prior to the scene selected in step **4-1** of Adding a Scene.

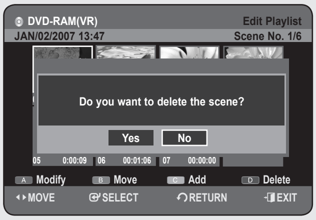

DVD-RAM(VR)
Edit Playlist
JAN/02/2007 13:47
Scene No. 1/6
01 00:02:24
02 0:00:34
03 00:00:31
04 0:01:22
05 0:00:09
06 00:01:06
07 00:00:00
A Modify
B Move
C Add
D Delete
PLAY
EXIT

Deleting a Scene

To setup, follow steps 1 to 3 in page 82.

4-1. Press the ▲▼◄► buttons to select the scene you want to delete, then press the **BLUE(D)** button.

- The message "Do you want to delete the scene?" is displayed.

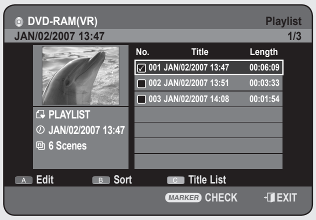

DVD-RAM(VR)
Edit Playlist
JAN/02/2007 13:47
Scene No. 1/6
Yes
No
A Modify
B Move
C Add
D Delete
MOVE
SELECT
RETURN
EXIT

Do you want to delete the scene?

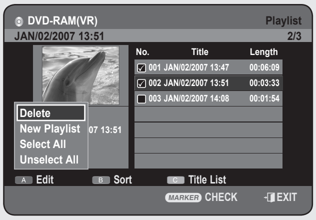
5. Press the ◄► buttons to select **Yes**, then press the **OK** to delete the selected scene.

Deleting a Playlist Entry from the Playlist

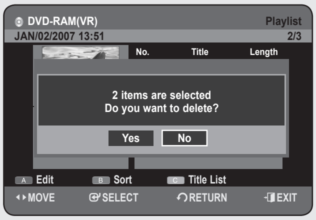
Using the PLAY LIST button


DVD-RAM(VR)
Playlist
JAN/02/2007 13:47
1/3
PLAYLIST
JAN/02/2007 13:47
6 Scenes
A Edit
B Sort
C Title List
MARKER CHECK
EXIT

No.	Title	Length
☑ 001	JAN/02/2007 13:47	00:06:09
☐ 002	JAN/02/2007 13:51	00:03:33
☐ 003	JAN/02/2007 14:08	00:01:54


DVD-RAM(VR)
Playlist
JAN/02/2007 13:51
2/3
Delete
New Playlist
Select All
Unselect All
07 13:51
A Edit
B Sort
C Title List
MARKER CHECK
EXIT

No.	Title	Length
☑ 001	JAN/02/2007 13:47	00:06:09
☑ 002	JAN/02/2007 13:51	00:03:33
☐ 003	JAN/02/2007 14:08	00:01:54

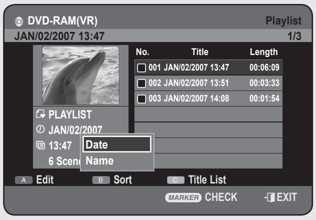

DVD-RAM(VR)
Playlist
JAN/02/2007 13:51
2/3
No.
Title
Length
Yes
No
A Edit
B Sort
C Title List
MOVE
SELECT
RETURN
EXIT

2 items are selected
Do you want to delete?

1. With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.
2. Press the ▲▼ buttons to select an entry you want to delete in the **Playlist**, then press the **MARKER** button until a checkmark appears. Repeat this step to select an additional title you want to delete.
   - If you don't want to delete a certain one of the checked entries, simply select that entry and press the MARKER to deselect it until a checkmark disappears.
3. Press the **RED(A)** button to select **Edit**.
   Edit menu is displayed.
4. Press the ▲▼ buttons to select **Delete**, then press the **OK** or ► button.
   - You will be prompted with the delete confirmation message "Do you want to delete?".
5. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   You will be automatically returned to the Playlist screen after the delete operation has finished.

- If you select "Select All" in the Edit menu, all title will be checked.

Using the Sort (Playlist)


DVD-RAM(VR)
Playlist
JAN/02/2007 13:47
1/3
PLAYLIST
JAN/02/2007
13:47
6 Scen
Date
Name
A Edit
B Sort
C Title List
MARKER CHECK
EXIT

No.	Title	Length
☐ 001	JAN/02/2007 13:47	00:06:09
☐ 002	JAN/02/2007 13:51	00:03:33
☐ 003	JAN/02/2007 14:08	00:01:54

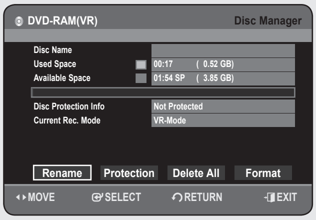
When you need to change the Sort order of Playlist, you can change it simply.

1. While the list menu is displayed, press the **GREEN(B)** button to select **Sort**.
2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.
   - **Date** : In order of when the playlists were created
   - **Name** : In alphabetical order

- You can sort by Date, Name. Sorted list will be resorted in copied order upon reentering Playlist.

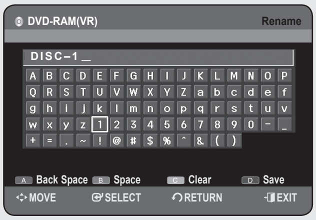
Disc Manager

Editing the Disc Name


DVD-RAM(VR)
Disc Manager

Disc Name
Used Space 00:17 (0.52 GB)
Available Space 01:54 SP (3.85 GB)
Disc Protection Info Not Protected
Current Rec. Mode VR-Mode

Rename
Protection
Delete All
Format
MOVE
SELECT
RETURN
EXIT


DVD-RAM(VR)
Rename
DISC-1_
A B C D E F G H I J K L M N O P
Q R S T U V W X Y Z a b c d e f
g h i j k l m n o p q r s t u v
w x y z 1 2 3 4 5 6 7 8 9 0 - _
+ = . ~ ! @ # $ % ^ & ( )
A Back Space
B Space
C Clear
D Save
MOVE
SELECT
RETURN
EXIT

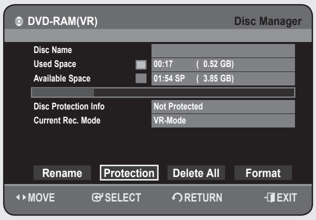
DVD-RAM DVD-RW DVD-R

Follow these instructions to give a name to a disc.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ◄► buttons to select **Rename**, then press the **OK** button.
   The Rename screen is displayed.
4. Select the desired characters using the ▲▼◄► buttons, then press the **OK** button.
5. Press the **BLUE(D)** button to select **Save**.
   A disc name is given to the disc.

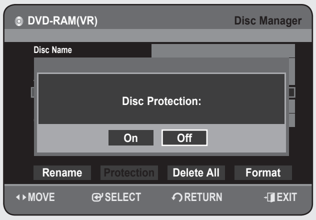
- You may need to clear Disc Protection beginning editing.
- Depending on the kind of disc, the displayed screen may be different.
- If you have recorded a DVB-T radio channel program, the time information displayed for each of free and used space may be incorrect.

Disc Protection


DVD-RAM(VR)
Disc Manager

Disc Name
Used Space 00:17 (0.52 GB)
Available Space 01:54 SP (3.85 GB)
Disc Protection Info Not Protected
Current Rec. Mode VR-Mode

Rename
Protection
Delete All
Format
MOVE
SELECT
RETURN
EXIT


DVD-RAM(VR)
Disc Manager
Disc Name
Disc Protection:
On
Off
Rename
Protection
Delete All
Format
MOVE
SELECT
RETURN
EXIT

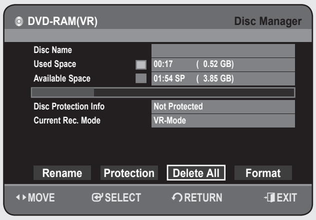
DVD-RAM DVD-RW DVD-R

Disc Protection allows you to protect your discs from being formatted or deleted due to unintended operations.

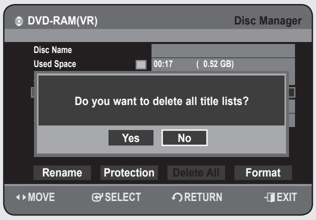
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ◄► buttons to select **Protection**,
   then press the **OK** button.
4. Press the ◄► buttons to select **On**, then press the **OK** button.

Delete All Title Lists

DVD-RAM DVD-RW DVD-R


DVD-RAM(VR)
Disc Manager
Rename
Protection
Delete All
Format
MOVE
SELECT
RETURN
EXIT

Disc Name
Used Space 00:17 (0.52 GB)
Available Space 01:54 SP (3.85 GB)
Disc Protection Info Not Protected
Current Rec. Mode VR-Mode

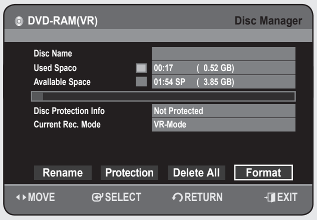

DVD-RAM(VR)
Disc Manager
Yes
No
Rename
Protection
Delete All
Format
MOVE
SELECT
RETURN
EXIT

Do you want to delete all title lists?

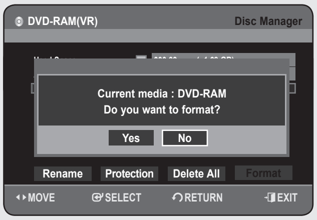
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ◄► buttons to select **Delete All**, then press the **OK** button.
   - You will be prompted with the confirmation message "Do you want to delete all title lists?".
   - When Protected Entry exists: The Delete All Title List function will not operate. If there is a title containing a still picture, however, that function will not operate.
     If you want to delete a protected entry, disable Protect for it on the Lock item.
   - When protected a DVD-RAM/-RW is used, data cannot be deleted from a disc.
   - If you select **Yes**, you will be prompted with the confirmation message "All playlists will also be deleted. Do you want to continue?".
4. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   All title lists are deleted.

Formatting a Disc

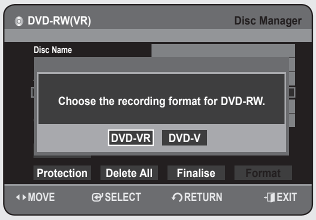
DVD-RAM DVD-RW


DVD-RAM(VR)
Disc Manager
Rename
Protection
Delete All
Format
MOVE
SELECT
RETURN
EXIT

Disc Name
Used Space 00:17 (0.52 GB)
Available Space 01:54 SP (3.85 GB)
Disc Protection Info Not Protected
Current Rec. Mode VR-Mode


DVD-RAM(VR)
Disc Manager
Yes
No
Rename
Protection
Delete All
Format
MOVE
SELECT
RETURN
EXIT

Current media : DVD-RAM
Do you want to format?


DVD-RW(VR)
Disc Manager
Disc Name
DVD-VR
DVD-V
Protection
Delete All
Finalise
Format
MOVE
SELECT
RETURN
EXIT

Choose the recording format for DVD-RW.

Use these instructions to format a disc.
The disc protect should also be cleared.

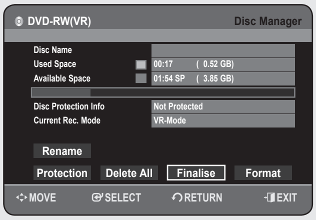
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ◄► buttons to select **Format**, then press the **OK** button.

   DVD-RAM
   - You will be prompted with the confirmation message"Current media : DVD-RAM. Do you want to format?".
   - If you select **Yes**, you will be prompted with the confirmation message "All data will be deleted. Do you want to continue?".

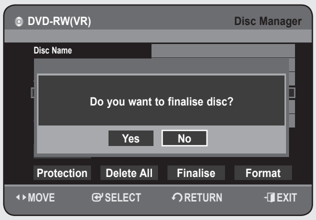
   DVD-RW
   - You will be prompted with the confirmation message "Choose the recording format for DVD-RW."
   - If you select the desired format type, you will be prompted with the confirmation message "All data will be deleted. Do you want to continue?".
4. Press the ◄► buttons to select **Yes**, then press the **OK** button. The disc is formatted.

DVD-VR and DVD-V are defined according to their recording format.

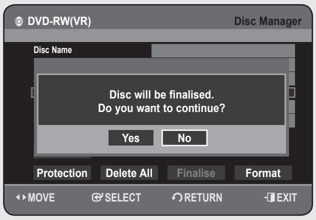
	DVD-VR	DVD-V
DISC	DVD-RAM/-RW	DVD-RW/DVD-R


DVD-RW(VR)
Disc Manager
Rename
Protection
Delete All
Finalise
Format
MOVE
SELECT
RETURN
EXIT

Disc Name
Used Space 00:17 (0.52 GB)
Available Space 01:54 SP (3.85 GB)
Disc Protection Info Not Protected
Current Rec. Mode VR-Mode


DVD-RW(VR)
Disc Manager
Disc Name
Yes
No
Protection
Delete All
Finalise
Format
MOVE
SELECT
RETURN
EXIT

Do you want to finalise disc?


DVD-RW(VR)
Disc Manager
Disc Name
Yes
No
Protection
Delete All
Finalise
Format
MOVE
SELECT
RETURN
EXIT

Disc will be finalised.
Do you want to continue?

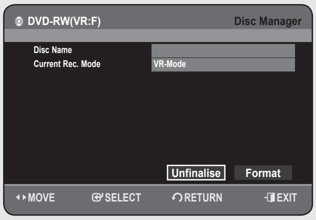
Finalising a Disc

DVD-RW DVD-R

After you record titles onto a DVD-RW/-R disc with your DVD Recorder, it needs to be finalised before it can be played back on external devices.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ▲▼◄► buttons to select **Finalise**, then press the **OK** button.You will be prompted with the message "Do you want to finalise disc?".
4. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   You will be prompted again with the message "Disc will be finalised. Do you want to continue?".
5. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   The disc is finalised.

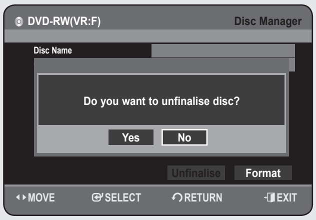
- Once a disc is finalised, you cannot delete entries from the record list.
- After being finalised, the DVD-R/-RW(video mode) operates in the same manner as a DVD-Video.
- Depending on the disc type, the displayed screen may be different.
- Finalising time may be different depending on the amount of data recorded on the disc.
- Data on the disc will be damaged if the recorder is powered off during finalisation process.
- You can finalise the disc automatically using EZ Record.
  (See page 30)


DVD-RW(VR:F) Disc Manager

Disc Name

Current Rec. Mode: VR-Mode

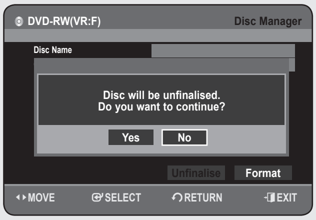
Unfinalise
Format
MOVE
SELECT
RETURN
EXIT


DVD-RW(VR:F) Disc Manager

Disc Name

Do you want to unfinalise disc?

Yes
No
Unfinalise
Format
MOVE
SELECT
RETURN
EXIT


DVD-RW(VR:F) Disc Manager

Disc Name

Disc will be unfinalised.
Do you want to continue?

Yes
No
Unfinalise
Format
MOVE
SELECT
RETURN
EXIT

Unfinalising a Disc (V/VR mode)

DVD-RW

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ◄► buttons to select **Unfinalise**, then press the **OK** button.
   You will be prompted with the message “Do you want to unfinalise disc?”.
4. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   You will be prompted again with the message “Disc will be unfinalised. Do you want to continue?”.
5. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   The disc is unfinalised.

- A DVD-RW can be finalised or unfinalised in Video mode.

	Finalise	**Unfinalise**
Mark	DVD-Video(RW)	DVD-RW(V)
Operation	Same as DVD-Video	Additional recording, protection and deletion are possible.

- A DVD-RW can be finalised or unfinalised in VR mode.

	Finalise	**Unfinalise**
Mark	DVD-RW(VR:F)	DVD-RW(VR)
Operation	Additional recording, deletion, editing, and protection are impossible.	Additional recording, deletion, editing, and protection are possible.

Reference

Troubleshooting

If your product malfunctions, go through the checkpoints below before contacting a Samsung authorised service centre.

Power

The input is displayed for a while when the power is turned on.

Checkpoint 1 The DVD Recorder requires some time to initialise and the input will be displayed for approx. 10 seconds after it is turned on.

Recording

Cannot record TV programmes.

Checkpoint 1 Check whether the power cord is securely plugged into the power outlet.

Checkpoint 2 Did you set the DVD Recorder channel settings correctly?

Checkpoint 3 Check the free space on your DVD-RAM/-RW/-R discs.

I pressed the REC button but there is no response.

Checkpoint 1 Check available disc type. (See page 60)
If a programme is copy protected, it cannot be recorded.

Playback

Cannot play the disc.

Checkpoint 1 Check whether the disc is inserted correctly with the label facing up.

Checkpoint 2 Check the regional code of the DVD disc.

Checkpoint 3 This DVD Recorder cannot play some types of discs.
(See pages 6, 41)

⊘ icon appears on the screen.

Checkpoint 1 You cannot use this operation or function due to one of the following reasons:

(1) Your DVD disc restricts it.

(2) Your DVD disc does not support this feature (for example: angles)

(3) The feature is not available at the moment.

(4) You've requested a title, chapter, or scan time that is out of range.

Play mode settings are different from the settings configured in the Settings menu.

Checkpoint 1 The disc does not support all selected functions. In this case, some settings configured in the settings menu may not work properly.

Cannot change the aspect ratio.

Checkpoint 1 The aspect ratio is fixed for DVD discs.
(See page 33)

The angle operation does not work while playing a DVD disc.

Checkpoint 1 The angle operation is available only when the disc contains images captured from different angles.

The selected audio and/or subtitle language is not played.

Checkpoint 1 Audio and subtitle languages are disc-specific. Only the sound and subtitle languages contained on the DVD disc are available and displayed in the disc menu.

Video

The disc revolves, but no image or bad quality images is displayed.

Checkpoint 1 Be sure that the Video Setting is properly set. (See pages 33~34)

Checkpoint 2 Check whether there is damage to or any foreign material on your disc.

Checkpoint 3 Some low quality discs may not play properly.

Checkpoint 4 If scenes change from dark to bright suddenly, the screen may shake vertically temporarily, but this is not a fault.

Sound

No sound.

Checkpoint 1	Are you watching a programme in slow or skip mode? If you are playing a programme at a speed other than normal speed, sound will not be heard. (Except for forward search (X 2) in disc.)
Checkpoint 2	Check the connections and settings. (See pages 20~21, 31~32)
Checkpoint 3	Check whether the disc is damaged. Clean the disc, if necessary.
Checkpoint 4	Check whether the disc is inserted correctly with the label facing up.

No audio output.

Checkpoint 1	Check whether you have selected the correct digital output options in the Audio Output Options menu. (See pages 31~32)

Timer Recording

Timer lamp flickers.

Checkpoint 1	Check there is enough space in the disc for recording.
Checkpoint 2	Check whether the current disc is recordable or not. Make sure to check before the start time of recording.

Timer recording does not work properly.

Checkpoint 1	Re-check the recording time and the end time settings again.
Checkpoint 2	Recording will be cancelled if the power is interrupted due to a power failure or another similar reason while recording.

Remote Control Unit

The remote control doesn't work.

Checkpoint 1	Point the remote control at the remote control sensor on your DVD Recorder. Allow for proper distance. Remove obstacles between your DVD Recorder and the remote control.
Checkpoint 2	Check whether the batteries are drained.
Checkpoint 3	Check the TV/DVD selection button setting.
Checkpoint 4	Check whether TV, DVD control button is selected or not.

Other

I forgot my password for parental supervision.

Checkpoint 1	Press and hold the **PROG** (⌄ ⌃) buttons on the front panel of the Recorder for more than 5 seconds with no disc in the unit. All settings including the password will revert to the factory settings. Do not use this unless absolutely necessary. (Note that this function is possible only when no disc is inserted.)

Is it possible to change a subtitle and an audio signal on a recorded disc?

Checkpoint 1	A recorded disc is played with only the subtitle and the audio signal which were selected during recording.

Other problems.

Checkpoint 1	Read the table of contents and then find and read the section describing your problem, follow the instructions given.
Checkpoint 2	Plug your DVD Recorder off and on.
Checkpoint 3	If the problem still persists, contact a nearby Samsung service centre.

Specifications

General	Power requirements		220-240 V AC, 50 Hz
	Power consumption		25 Watts / 4,5 Watts (Power off)
	Weight		3,6 Kg
	Dimensions		430 mm(W) x 336 mm(D) x 59 mm(H)
	Operating temp.		+5 °C to +35 °C
	Other conditions		Keep level when operating. Less than 75% operating humidity
Input	Video		Composite Video : 1.0 V p-p at 75Ω load, sync negative
	Audio		Max.Audio Input Level : 2 Vrms
	DV Input		IEEE 1394(4p) compatible jack
	Receivable Channels		PAL-I, DVB-T
	Scart Jack	AV2 (Scart Ext)	Video : Composite, RGB Audio: analogue
Output	Audio		Analogue output jacks x 1
			Optical/Coaxial digital audio output
	Video		Composite Video : Video output jack x 1
			S-Video output x 1 (Y :1,0Vp-p, C : 0,286Vp-p at 75Ω load)
			Component output x 1 (Y : 1,0Vp-p, Pb : 0,70Vp-p, Pr : 0,70Vp-p at 75Ω load)
	Scart Jack	AV1 (Scart TV)	Video : Composite, RGB Audio: analogue
Recording	Picture Compression format		MPEG-II
	Audio Compression format		Dolby Digital 2ch/256Kbps, MPEG-II
	Recording Quality		XP (about 8,5 Mbps), SP (about 4,5 Mbps), LP (about 2,5 Mbps),
			EP (about 1,6 Mbps or about 1,2 Mbps)
	Audio Frequency Response		20 Hz~20 kHz

Audio Output For DVD discs, audio signals recorded at 96 kHz sampling frequency are converted into and output at 48 kHz.

Disc Type	DVD	AUDIO CD(CD-DA)
Analogue Audio Output	48 / 96 kHz	44,1 kHz
Digital Audio Output	48 kHz	44,1 kHz

UNITED KINGDOM

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased.
However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned.
In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.
Customer Care Centre
PO Box 17243
Edinburgh, EH11 4YB
United Kingdom
Tel : 0870 SAMSUNG (7267864),
Fax : 0870 7221127 (United Kingdom)
Tel : 0818 717 100,
Fax : +44 (0)870 7221127 (Republic of Ireland)
Web : www.samsung.com/uk

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.

REPUBLIC OF IRELAND

4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imbursement will be made for such adaptation nor any damage which may result.
5. This warranty covers none of the following:
    - a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
    - b) Cost relating to transport, removal or installation of the product.
    - c) Misuse, including the faiure to use this product for its normal purposes or incorrect installation.
    - d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

SAMSUNG ELECTRONICS (U.K.) LTD.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Region	Country	Customer Care Center	Web Site
North America	CANADA	1-800-SAMSUNG (7267864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG (7267864)	www.samsung.com/mx
	U.S.A	1-800-SAMSUNG (7267864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421 4004-0000	www.samsung.com/br
	CHILE	800-726-7864 (SAMSUNG)	www.samsung.com/cl
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-7267-864	www.samsung.com/latin
	VENEZUELA	0-800-100-5303	www.samsung.com/latin
	COLOMBIA	01-8000112112	www.samsung.com.co
Europe	BELGIUM	02 201 2418	www.samsung.com/be
	CZECH REPUBLIC	844 000 844 Distributor pro Českou republiku : Samsung Zrt., česka organizační složka Vyskočilova 4, 14000 Praha 4	www.samsung.com/cz
	DENMARK	70 70 19 70	www.samsung.com/dk
	FINLAND	030-6227 515	www.samsung.com/fi
	FRANCE	3260 SAMSUNG or 08 25 08 65 65 (€ 0,15/Min)	www.samsung.com/fr
	GERMANY	01805 - 121213 (€ 0,14/Min)	www.samsung.de
	HUNGARY	06-80-SAMSUNG (7267864)	www.samsung.com/hu
	ITALIA	800-SAMSUNG (7267864)	www.samsung.com/it
	LUXEMBURG	0032 (0)2 201 24 18	www.samsung.lu
	NETHERLANDS	0900 20 200 88 (€ 0,10/Min)	www.samsung.com/nl
	NORWAY	815-56 480	www.samsung.com/no
	POLAND	0 801 801 881	www.samsung.com/pl
	PORTUGAL	80 8 200 128	www.samsung.com/pt
	SLOVAKIA	0800-SAMSUNG (726786)	www.samsung.com/sk
	SPAIN	902 10 11 30	www.samsung.com/es
	SWEDEN	0771-400 200	www.samsung.com/se
	U.K	0870 SAMSUNG (7267864)	www.samsung.com/uk
	Republic of Ireland	0818 717 100	www.samsung.com/uk
	Switzerland	0800-7267864	www.samsung.com/ch
CIS	RUSSIA	8-800-200-0400	www.samsung.ru
	KAZAHSTAN	8-800-080-1188	www.samsung.kz
	UZBEKISTAN	8-800-120-0400	www.samsung.uz
	UKRAINE	8-800-502-0000	www.samsung.com/ur
	LITHUANIA	8-800-77777	www.samsung.lt
	LATVIA	800-7267	www.samsung.com/lv/index.htm
	ESTONIA	800-7267	www.samsung.ee
Asia Pacific	AUSTRALIA	1300 362 603	www.samsung.com/au
	CHINA	800-810-5858, 010-6475 1880	www.samsung.com.cn
	HONG KONG	3698 - 4698	www.samsung.com/hk
	INDIA	3030 8282 1800 110011	www.samsung.com/in
	INDONESIA	0800-112-8888	www.samsung.com/id
	JAPAN	0120-327-527	www.samsung.com/jp
	MALAYSIA	1800-88-9999	www.samsung.com/my
	PHILIPPINES	1800-10-SAMSUNG (7267864)	www.samsung.com/ph
	SINGAPORE	1800-SAMSUNG (7267864)	www.samsung.com/sg
	THAILAND	1800-29-3232 02-689-3232	www.samsung.com/th
	TAIWAN	0800-329-999	www.samsung.com/tw
	VIETNAM	1 800 588 889	www.samsung.com/vn
Middle East & Africa	SOUTH AFRICA	0860 7267864 (SAMSUNG)	www.samsung.com/za
	U.A.E	800SAMSUNG (7267864) 8000-4726	www.samsung.com/mea

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)
This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

AK68-01452A